

SEQUENCE LISTING

<110> Gorlach, Jorn
 An, Yong-Qiang
 10 Hamilton, Carol M.
 Price, Jennifer L.
 Raines, Tracy M.
 Yu, Yang
 Rameaka, Joshua G.
 15 Page, Amy
 Matthew, Abraham V.
 Ledford, Brooke L.
 Woessner, Jeffrey P.
 Haas, William David
 20 Garcia, Carlos A.
 Kricker, Maja
 Slader, Ted
 Davis, Keith R.
 Allen, Keith
 25 Hoffman, Neil
 Hurban, Patrick

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<210> 27

60 <211> 435

5 <212> DNA
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 10 <222> (1)...(435)
 <223> n = A,T,C or G

<400> 27
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 ttgcaaccgc ggcttctga acaattggct cgagcttctc atctttgttg tcttcccata 180
 aatcaggtat tgcctccttt atgttatgaa tgctgcttag tgcatagtca gcacctggaa 240
 ctgacactga ttccccaca aacacggttt ttagccctgt tgcttttagca ctagcgatgt 300
 tacgaatact gtcacgaag aatatcgttt tgcgtggatc aacaatgtct gcaatgcaa 360
 20 ttgcagcttc aaatgcttcn nnnagagggt tacagaggat ttgagtgttt gaatcagaag 420
 aagggttag tgttt 435

<210> 28
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 30 <222> (1)...(435)
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 aaaataacag aagtccaaaa aaaattccac aaagtaaaga aatttatcga agtgtttcat 180
 caatttcaag aaaacagaag agtcgttaat ctgaatcaat acatcaatca agctttcgat 240
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 40 agaatgcagc aaatggtntt ctctgttgca gtaagtgtcg aattcagcat atgcacatac 420
 tgctttgtct gctca 435

<210> 29
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 45 <212> DNA
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<400> 29
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 taagaaataa gagtttcatt ttcttattct gaacaatcat cataagtaat gtggctgtgc 180
 tctgtacagc taacaaccgc gaagagaatg cttacttgag atgttcaacg tcttgcaaaa 240
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 ctccagttag gtgtgcaaca catctcttct cagccaacag ttccgcttcc gacttggcga 360
 55 ttcgttggcg aaggtagtca tcaatttcta catccttgac aagttcataa tctccatctc 420
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<210> 30
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5 <213> Arabidopsis thaliana

<400> 30

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10 ggtgtgatta catgccttcc gatcgtaaaa actggatggc cggcgttcga cctgaaaagc      180
ttcacatcaa caagatcgtc tggcctggga cgcacgactc tgccaccaac aaaatcggta      240
tccgattcgt gtctcgcccc tttgctaagt gccaatctct ctccatctat aaccagctcg      300
tggcgggtac tcgagtcctt gacattcgtg tccaagaaga tcgccgtgta tgcacacggc      360
atcctcaaga cttatagtgt cgacgttgtc ttggccgata tcaaacgggt tctatccgaa      420
15 acagagtcgg agatt                                     435
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<210> 31

<211> 435

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20 <213> Arabidopsis thaliana

<220>

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<222> (1)...(435)

25 <223> n = A,T,C or G

<400> 31

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30 ggtaaaaatta ctaatttaag tgtttgtttg tcnnnttagg tccggttcann caacgggctc      180
ttctcacact cgaggagaag agtcttacct acaaaatcca tctgattaac ctctctgaca      240
aaccacagtg gtcagtttct ctcacgccta aacccttaag atcgggtctag tttgaacttg      300
tttagccata atctctgaaa ttttacttgt aactggtagc agcttttgtg taaccggaaa      360
ttggattggc ttcattgtgc agcatttgtt taaccggaac ttgaaattgg tggctttggc      420
35 tttatatatg atgca                                     435
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<210> 32

<211> 435

<212> DNA

40 <213> Arabidopsis thaliana

<400> 32

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45 aaatcagtga acggtttgat gggatatgaa gggcttgaag tgattaatcc agaaggaagt      180
acagacgatg cagaggaaga agcagggaga ggaagatgga agcaagagga acgtgatggc      240
tattggaaga tgatgcagaa gtatataggg tctgatgtta catctatggt tactcttctt      300
gtgatcattt ttgaacccat gacaatgttg cagaaaatgg ctgagttgat ggaatactca      360
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50 tcatgggcta tatct                                     435
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<210> 33

<211> 435

<212> DNA

55 <213> Arabidopsis thaliana

<220>

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<222> (1)...(435)

60 <223> n = A,T,C or G

5

<400> 33

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tctcagtga	cgtctcaaga	aagctttcaa	ggagcttgac	acttaccttc	aagaacttct	180
10 agacgagact	cttgacccta	accgccctaa	acaagaaaca	gagagtttca	ttgatctttt	240
gatgcagatc	tacaaagacc	aacctttctc	catcaaattc	actcacgaaa	atgtcaaggc	300
catgatattg	gatattgttg	tgccgggaac	tgacacggcg	gctgcagtgg	tggtatgggc	360
catgacttac	cttattaagt	accctgaagc	aatgaagaaa	gctcaagacg	aagtgaggag	420
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15

<210> 34

<211> 435

<212> DNA

<213> Arabidopsis thaliana

20

<400> 34

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cgaactctca	ctctctatga	ctcttttatct	tctcgagatt	tgcttacaaa	gcagtagcat	180
25 tttgcggctg	ctctatctgg	agaggttcct	gcaactctgg	at ttattgga	aacaaatggc	240
attgtgcgta	ttgcgccatc	aattgatcca	caagaactag	agccaccatt	gcttccacca	300
ttggcacagc	tctgtggaaca	acacaaggat	catgacgacc	acgcgcaatc	at ttcggttt	360
ctacctgtgc	tctggttacc	gtatttttgc	tccttccaat	tggtgatgtt	ggcttgaagg	420
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30

<210> 35

<211> 435

<212> DNA

<213> Arabidopsis thaliana

35

<400> 35

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ggcttttcgtg	tggtggaggg	agaagagtcg	tgatgttttg	agcttaaccg	gcctggcgga	180
40 tccgggtttga	ttctacgcga	gattgtggat	gaatcggtta	agagtttgac	ttgtttttga	240
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atgatttagt	ggaggagagg	gcaatattgt	aaatatattt	gacggtataa	tagagagagt	360
tgacaaaatt	ttgtaatagc	ttttggcttt	gttctatgac	at ttgaaata	ttaaattgatt	420
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45

<210> 36

<211> 435

<212> DNA

<213> Arabidopsis thaliana

50

<220>

<221> misc_feature

<222> (1)...(435)

<223> n = A,T,C or G

55

<400> 36

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aaaatggcta	gtacacctgg	agttagttgt	acacttttca	gtgcttttgg	gaaggcta	180
60 attaatgtcc	gagctatatc	tcaaggttgt	tctgagtaca	atgttactgt	cgttattaaa	240

5 cgtgaagata gcgttaagnn nntaagagct gtacactoga ggtttttctt gtcaagaaca 300
acatttagcaa tgggaatcgt aggaccgggc ttgattgggtg caacattact tgaccagctg 360
cgggatcagg ctgctgttct caaacaagaa tttaacattg atctgcgtgt tttgggaatc 420
acgggttcaa agaag 435

10 <210> 37
<211> 435
<212> DNA
<213> Arabidopsis thaliana

15 <400> 37
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ccctttgaat ctgggtctcag gtgtgaggcc aacgcattga tagtgaaacc attcacctcc 120
ttggcaattc tcattgtcac aggcaatcat gtctccaaag gacacctgat ggcagacaca 180
gtaagttggg tcgtttggat cgattggctg ctcttcaatt ggcataaggt ctttccgatt 240
20 gcttcctgga ggaggcatga gctcaaaatc cctgtcacga tcccagctctc tatctctata 300
atcaatcttc ttgggctgag gtgtgccata gaaggactta cgcttttccg ctttaggaac 360
tataggtagt ggaggaagaa cagagggctc gtctggtgga atttttccct cttgctttaa 420
atcttctgca aaatt 435

25 <210> 38
<211> 435
<212> DNA
<213> Arabidopsis thaliana

30 <400> 38
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cttttagtat cagatcgtga tgttttccca gacttaccac cttactaac aagagaagaa 180
tccccaaagt acatttttga aacacctcca tcatccttgt ccacattctc ttgcttggtc 240
35 accaaatgaa caaccttctc tttatgcacc tcttcattat catcctcatg cccagaatca 300
acatattcat ccccatcatg agaatcaatc gcatcatcat cctcacgatc cctatcaact 360
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atcttcaact cattc 435

40 <210> 39
<211> 435
<212> DNA
<213> Arabidopsis thaliana

45 <400> 39
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aaataatagt gaacgctctt tgcatttttg cttattcatc tagcttttcc acttttgtgt 180
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50 atccctatca cagggtgacat ccctgaagct tgaatcttgg gaaccaccag taaatgtctg 300
agacccactg accggaacag aaccaaagct ttagccactg acatactttg caccactgtg 360
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attgcaacat catcg 435

55 <210> 40
<211> 435
<212> DNA
<213> Arabidopsis thaliana

60 <400> 40

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 aactttttatt catattacat tttgattaaa gaagcttcat tagttggggc agcaagtgca 180
 gttgacgcag ctgcaagagg agccgcactt gcacttgcaa tttgcgttgt tctcctcggc 240
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 10 gtagctgggt cctttcttta cgcactgggt cttgtcagca cagtcgcagc ttccgcagtt 360
 gcttgacatg attgagtttt tgaaaaggct ttaaaggatg tttagttatg aagtgtttga 420
 cctgccccggg cggcc 435

<210> 41

15 <211> 435

<212> DNA

<213> Arabidopsis thaliana

<400> 41

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 actcttatcc gaaaacacgt gttgacttta gaattcaact gtaacacatg ccgataagtc 180
 atcatcagaa atttaacgac atcaaccttg cgtcgcagaa gcccagaatc cgggtgaagaa 240
 aatatcgtcg aaacatcgca cgaaattttt ttgtttacca cctaaataac actgaacgga 300
 25 actcctaaag aacacaacat aagggaatgg ttatatgcat cggaatattc ttcaatcttt 360
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 cagaattatt aattt 435

<210> 42

30 <211> 435

<212> DNA

<213> Arabidopsis thaliana

<220>

35 <221> misc_feature

<222> (1)...(435)

<223> n = A,T,C or G

<400> 42

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 ttgacaacaa cacaaatgtg ttgtctgatt agagcttgtg catgataagc tgagcaccga 180
 actgtgggtg aatgggtgatg actgtgtatg gtgcgtgaac ataggaagga gaaatctcaa 240
 acgagaacct ccgcagaatc aatgccattg ccatttttgc ctctaacagg gcaaagtctt 300
 45 ggcctatgca tatcctcggg cccacgcaa agggaaagaa ggagacttgg ctctttgttg 360
 ccttnnnnng accatcttta aatctgtcag gattgaactc tgctgcgtcg tttcccaca 420
 gctcgatgtc gtgtt 435

<210> 43

50 <211> 435

<212> DNA

<213> Arabidopsis thaliana

<220>

55 <221> misc_feature

<222> (1)...(435)

<223> n = A,T,C or G

<400> 43

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 attctgaaag attacattga aggtaagctt ccacattttg caatgcctcc agagataacc 120
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 cagactgaga agaaaggtga agaagctcct agtcttggtc ttgatcaagt tctagatgat 240
 cttagctcgt ttgatcttgc aaatggactt gtgtcttcca aaacgaaaca gcacaagaag 300
 10 tcacatagga aacaatgatt cggctcttgat ggaacgcaa ttctgagagt tttcctgaaa 360
 ccgatcaaca aatgcnnnaa tatatgatac agttgtggat ttttcttatt gtagaaatcg 420
 tgataacatt ctaac 435

<210> 44

15 <211> 435

<212> DNA

<213> Arabidopsis thaliana

<400> 44

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 tccaaaattc aatgtgaagg taagtaagta aataaataaa ggtaaaaaga gagagggggg 180
 aaaattaggg accacgacca gagacaaagc agaaacagcc aggtctctga tcttccggga 240
 tcattccacc gccttttggtg gtgtcgacag cttcaagcaa actcacaact tcctccatct 300
 25 ctggctcgtt ctccggatta gcttcccaac atctcttcat tatggtcgcc aatgctgttg 360
 gacaacatct tggaatatcc ggtctcagat tctgacgaac aacagcagaa gaaacatcag 420
 caaagctgag atcag 435

<210> 45

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<220>

35 <221> misc_feature

<222> (1)...(435)

<223> n = A,T,C or G

<400> 45

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 tgtgttgagg ttttacgatg ctccaaggat ttcacttact cctgtgtttg ctcagttgaa 180
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 45 ttaagtcggt tctgttggtt ggacgctcgt attagagatt tttccaagtc ctcctttcta 360
 aagaaaacan nnnnataact catgttttca cttcgtagaa tcaagctctt tgactggaaa 420
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<210> 46

50 <211> 435

<212> DNA

<213> Arabidopsis thaliana

<220>

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<222> (1)...(435)

<223> n = A,T,C or G

<400> 46

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 gaacaaacca gtcaggaaaa ttccaagttc attcacataa ccgaaagagc cacctaaaaan 180
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 aaccttgtgt aaacccttaa tctttcttct tgttcttcaa cggcccaagt gggatcttgc 300
 10 tcaacacctt ctcatccaac actgcatact gcttcttgag ctcgatcatt gctttctcac 360
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<210> 47
 15 <211> 435
 <212> DNA
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<220>
 20 <221> misc_feature
 <222> (1)...(435)
 <223> n = A,T,C or G

<400> 47
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 taattgtttc cttcttttgg gattttctcc ttggatggaa ccagctcaat taatgagatg 180
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 gtttatgctc atttgtgtct ccagatgctc aaggggatgc actggttgcg ttgaggatct 300
 30 ccttacgtgc attaccgaat cagctaagt actggaatca gaaccaagtt aatccttgca 360
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 tgaacttctc gggaa 435

<210> 48
 35 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana

<400> 48
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 acactacctc ttcaaggaaa tcatggatca taatgtctat cggcatctaa gcaagtccac 180
 ttaacatgctc caaagtgtgt tggcttctac gtctaaagcc gttcccaaaa aattcaagat 240
 tgattgacgt atagaacagg aacaagtccc gccatcttcc catctcttcc aggccgttc 300
 45 ttctttacgt aaaaccagcc atcaacttca tactctatct ccaattctc ttctgccgtc 360
 aagtttagct catcatctcc tcctgctgtg aagtcataga gcgctgttcc aaatcttgta 420
 ccagtagatt tcta 435

<210> 49
 50 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana

<400> 49
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 acaaatagt acgatcgatt tgattgaacg ccaagcaatt gatattgtga aagaaagacc 180
 agtgggtggc taatggttga gatgaccact ctgctctctc ttgtgacaga gcacgagaag 240
 accacaggct ctgctattcc ttaattgtac aaacttcatt caccattatc ctgtaacacc 300
 60 gttagagaaa acctccaccg gtccaagcag tgtctgattt ccattgtga cctacagatt 360

5 tctttatcgt tgcaggctga taatagaaat catcatcttt agcatcatta tcatcccaac 420
cagcccaacc gccgt 435

<210> 50
<211> 435
10 <212> DNA
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<220>
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15 <222> (1)...(435)
<223> n = A,T,C or G

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gttaagctgt taacagataa aaccatatct cctgatttga tctcaagggc ataagtcagt 120
ttgctcgaan nnnnnctgct agtgagcttc atgccttctt tgaaagcttg attcgtgatc 180
agagtatctg tccgatgatc aaaactctcc cagatcgaag ttccgtcaac ggaaacaaca 240
acgagattcc cggagtcacg cagctcgatt cttgaagcgt ttttgcttga attatccaat 300
ctccaaacct cagttccttc catcaccaca tttccgttgt catcgaacac aaacttgctg 360
25 gaattggaaa caggggaagc tctgttcgcg gaccagatca gtttcgtgct gctcttgagg 420
atgatactga gtgtg 435

<210> 51
<211> 435
30 <212> DNA
<213> Arabidopsis thaliana

<400> 51
35 acgggcggcc gccattgtga tgaggactgt aagaaatatt gttaacacag ggccaaccat 60
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catgaaacgt ggtggagaac tcatatatgc cggctccactt ggccagaagt cttgtgagct 180
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tgaaattttac aggaactcaa atctttgtca acgcaacaag gagctgatcg aagtactcag 360
40 caagccaagt aacattgcaa aagaaatcga gtttccaacc agatactctc agtcactgta 420
tagtcagttt gttgc 435

<210> 52
<211> 434
45 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
50 <222> (1)...(434)
<223> n = A,T,C or G

<400> 52
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gtttcttaca acaagatata actattacgg taaaataaaa ttaaaagctt gtctgttgtc 120
gtcataatcc acttttgctt aaaattaaaa acctttcaac acacaaaact ttacacactc 180
tgttatagag aagacatgta agcaaatgtg gtttctgggt atccctgcca tcattcctca 240
ccaacttctg cttcttcgtc atcatcttca tcagagtcac cttctttctc ctcttcatct 300
ccatcatcgt ctccatcaaa gtcctcttca tcagcgtcat tgttgaagta ggtgagaggg 360

5 ttggnnnaca aatcttcctt gatgatatct gcaacctgct cgtcttgcac ctcacccctca 420
acatccctct tgtg 434

<210> 53

<211> 434

10 <212> DNA

<213> Arabidopsis thaliana

<400> 53

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15 cttcaaatta gaatcagaaa caagagcatt cttcttcatt tacacaggta aattagggtg 120
aaaaatggtg atgagaagtg tggatctacg atcagatacc gttactagac cgacagatgc 180
gatgcgagaa gcaatgtgta acgcagaggt ggatgatgac gtcctcggat atgacccaac 240
ggctagacgt cttgaagagg agatggctaa gatgatgggg aaagaggctg ctctgttcgt 300
gccatccggg acaatgggga atctgatcag cgtgatgggt cactgcgacg tgagaggcag 360
20 cgaggtgatt cttggcgaca attgtcacat ccatgtttac gagaatggag ggatatcgac 420
tatcggggga gtgc 434

<210> 54

<211> 434

25 <212> DNA

<213> Arabidopsis thaliana

<400> 54

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30 aaaccggtgt tagcagcagg agttaacatt aacttccgtg atgccaatgg ctgggtctgcc 120
cttcattggg ctgcgttttag tggcagggag gaaactgtcg ctgtgcttgt ctctctaggt 180
gctgatgctg gggcattaac ggatccatct ccagagcttc cattgggtaa aacagcagct 240
gatttggctt acgcaaattg acacagggga atttcgggat ttcttgcaga gtcttcctta 300
actagttatc ttgaaaagct aacagtggac tcaaaggaaa atagccctgc caactcttgt 360
35 ggagaaaaag ctgttcaaac agtctctgag cgaaccgctg ctccctatgac ctatggcgat 420
gtaccagaga aact 434

<210> 55

<211> 434

40 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

45 <222> (1)...(434)

<223> n = A,T,C or G

<400> 55

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50 tgtgcaaaaca atatgcgac tctacgaaaa gatctcaaag cttgagagtc taaaaccatc 120
cgaagatgtc aacatttctt tcaagcagct cgtttccaca tgcataccac caaacctaa 180
catcgatgtc accaagatgt gtgacagagt ccaagagatt cgacttaatc tcatcaagat 240
ttgtgggtcta gccgaaggct acttagaaaa ccatttctct tcgatcttga cctcttacca 300
agacaaccca cttcatcatt taaacatttt cccttattac aacaactatt tgaaactcgg 360
55 aaagctcgag ttcgaccncc tcgaacaaaa cctaaatggc tttgtcccaa agagtgtggc 420
tttcattgga tctg 434

<210> 56

<211> 434

60 <212> DNA

5 <213> Arabidopsis thaliana

<400> 56

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gtgttcatca atctctccct ccgcatgtaa tcgcttcgcc gtcaatatca catctttctt      120
10 cttcttttatc tttaaaatct ctttagatcg attcttttgt ggattcttga aatctccgga      180
gaaaaccact atggagacgg cgactgaagt ggccacggtg gtgtcaactc cggcggttac      240
ggttgcggcg gtggcgacga ggaagagaga taagccgtat aaagggataa ggatgaggaa      300
gtgggggaag tgggtggcgg agataagaga gcctaataaa aggtcaagga tctggcttgg      360
ctcttactct actcctgaag cggcggcgcg tgcttacgac acggcggtgt tttatctccg      420
15 aggtccttct gctc                                     434
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<210> 57

<211> 434

<212> DNA

20 <213> Arabidopsis thaliana

<400> 57

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25 catatcgaaa tagtcctctt acattattga agagaaagaa aaataaaactt gaacatcaac      180
tttaaaactg aaaaaaaaaac atttcgaact tgacttaact tcagtagacg aattgcaa      240
cttgactatt tgtttgattc atcctctgct ttctcgacct tcgtcatgaa tgtaaccggg      300
ttcttcgggt gctcatttac ggtcaagtta aaaatatctg gctttgagta atgtccaacc      360
acatcgaaat ataacttggc tcttgctata tcaccaagat caagatcagc tgtgacgaga      420
30 cctctgatt cata                                     434
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<210> 58

<211> 434

<212> DNA

35 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(434)

40 <223> n = A,T,C or G

<400> 58

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aaaaaaaagac acaatctttt atgttttgtt ttgttattgg cctattcttc cagattttacg      120
45 ttttannnga agttatttcc caaccattag gataatttct acatgaacag ctcagactgc      180
agcaacgtgt aataattagc agcttcgtct tcaagctccc aaaacgcac accaaaccca      240
tctaacaacac tatctccata aacgtaaccg tcattagcct tttcataatt actctcgcca      300
aaatctgtgt tagggatccc aagttcgtea tcggaagcct ccaaaagatg ctgcatcact      360
ttctccttgc tgtcatcttc cacttcttct tcctttgagg aaacacatga agaaaacgag      420
50 tcttcgacgt tgga                                     434
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<210> 59

<211> 434

<212> DNA

55 <213> Arabidopsis thaliana

<400> 59

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aatatacaaa aactcttcgt aggttttctt tatcaaaagt atcagcacca atgagtttca      60
ttcaagacaa ggatcataat gactaatatt attgaaaaag gaaatgcca atttgggtgg      120
60 ttatctaggg ttggtgttga ggagacttct tgagatgtag ggcttctttg agcttacgac      180
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5 ctagagcaaa tgccaatggt ggagggactg cattcccaat ctgcctgtgc ttgtgattta 240
 tgttccctgc aaactcgtag ctatccggaa acccctgaga tcgggcgcac tcacggactg 300
 taaggattct gtgctgttca ggatgaaagc acattccaac cttacccatg ggctgaggat 360
 ccgtgacgga agtcggaaaag tttccttgcc aatctaattc cccatatagt cccttccaac 420
 cgttgtggcg ctca 434

10 <210> 60
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

15 <220>
 <221> misc_feature
 <222> (1) ... (434)
 <223> n = A,T,C or G

20 <400> 60
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 aaatactcgt ggctctattc ctatgatctt cttcgtaann ntgggtctgt tgaagatgag 120
 agacacattt gtgatgtaat gaagaaacat ctagtctagt ctggatcagt gtttcctcgg 180
 25 atacacactt ttgggttagg tgtattctgt aatcactact tcctgcaaat gcttgcaaat 240
 atatcctgtg gccagcacga atcagtttat aatacagatc acattgagga aagaatggac 300
 aaactgttta caaaggcttt atccaccatt cttgttaata tagcaattga gccccttcaa 360
 agtctagatg aagttgaggt atacccttca aatattccgg atctgacgtc tgcaagtcca 420
 ttgatgatat atgg 434

30 <210> 61
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

35 <400> 61
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 aatcacacta acaacgaagc aagagcaaac aattttctcat caatttcgtg gtaaatatat 120
 agttgggttta accttgaacc ggttttacaa gcatgaagag tctgcacaga cgagactttc 180
 40 tttacattttt tctatttttt tggacaagag cttctcaaag agcctaattc catggtggag 240
 aagaggatcg gtgcagagaa gaagaagagg aaccatagtt gaggtcaaga ttctgaatct 300
 gttccataag ttgtgaccgt cgttccttga agaaatccag acgagtgggt agctccatga 360
 gagctgcaga tgttgacgga ggatgatgat gtcttccgta gtccattacc ggagaatact 420
 cttccattgg gatg 434

45 <210> 62
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

50 <400> 62
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 ctgaattttac tgtacagtta tagcaacatc ggtattgttg taaagatcac aagacaataa 120
 gaatattgtc ccacacattt gatctacatg tgaatgataa tgattttcca ttaatctgct 180
 55 ctccatagtc ctccaccatt gatgtatatc aatccttgtg tttcaactgc cacaacctgc 240
 tcttgaatga tctctaagcc gattgaaatg tgacttcccc ggtggatgtt cttacgtaag 300
 cagcagaagc ttcaggagtg tcttcctcac tcggtggaac cagttgccag aagagaggta 360
 gatacttttc ccaactcattc agaatcgttg cgcttttgcg gcttccggtt ttttccacat 420
 gtgcttcaat taag 434

60

5 <210> 63
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
 <221> misc_feature
 <222> (1)...(434)
 <223> n = A,T,C or G

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 acaatggaag ggaaagagag tcagaaaaca aaaaacaaaa atgaggatac aaaggaaact 180
 gagcgannng atcctgcagc tgaactctac aacttatttg gaatacaata tctatgctgg 240
 20 tggaaataga tagtacaagc ttgatgatgc ttcaaactgc tcttgatgca cgatgcccac 300
 cttttctctt attcgagaca gatgtattga cgttgctgaa tgatccggtt ccatttccat 360
 ttaagttctg attagccatg cattgtagct gatcaaaatc acaaccactt aacccttggt 420
 cattgatcga ggca 434

25 <210> 64
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 64
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 ttgtcttcca cagcttccaa gaggtccac cattgaagga tccttcaaca gagacaaagg 180
 actctccaca ctttcattct cattcaacga cccaaagtcc ttaaccact ctgggttatt 240
 35 ctacagcttcc tcccaaagca atctcgagtt caacacaaac ccagaccact ctagtttttg 300
 aggcaaaacc gcagcaacat catctatata aactgcactc ttccccgcat atggcaatgt 360
 attgaaaata tgccaaccaa tcaactgatc agttgagtta caagcaggac cctgtacagg 420
 taacgaagag ctct 434

40 <210> 65
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

45 <400> 65
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 gttggtcaca attgctttta cagttcttct gtatctactt cgtgatatct ttagacattt 120
 aatcaatcat taaaaaaca aacaaaaaaa tcgaaacttg ctgactcagt gtgattcacc 180
 tgtgcaaaac cccccaatta cccagaatc cgtaaagttg gttagtctcg gaaatccaaa 240
 50 tgtggaaatc tcaataaccc gattatgtaa tcgtatgacc cgacttggtc tccgggtcag 300
 gatccgacac aatgccggtg atcgaagact ctgaaaagct tcaacttttt gccgattatt 360
 tttacccttg aggagcaaaa ttccaattca agaacggttt ctgctcgaac gggctctgaa 420
 acgactcgac gaaa 434

55 <210> 66
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 66

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aggaattcct gtggcatttg gcaatagaga tggaagggtca aactcatgat gctcaaaaaca 180
atgttcctga gcatgacaat ccattgatga atgtgaagaa tccatcaagc aacttggttt 240
ctaagaaaga tgcacaatgt ttgtctgttt tatgcaacgg gaaatgggta cagattgtta 300
10 gaagcagtcc caaagtatca tgtgaggcct ctacttggtc aagtcatttt ttgaccaaag 360
taggagaaaa ctatgtggct gaatctgaaa agatgcataa aaaggtaatc tctttctcga 420
gcaaaacctt ctct 434

<210> 67

15 <211> 434

<212> DNA

<213> Arabidopsis thaliana

<220>

20 <221> misc_feature

<222> (1)...(434)

<223> n = A,T,C or G

<400> 67

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ttggagagat aacattggaa ctcagaaaga tgttgatgag aagtgttgga gtgatcttga 180
cttctgtctc aaaaaaaagt tgtggcatgc tcttgcaag acacagtccg agaaggcagc 240
tngggcatta gccatggatc gtatggtcaa catggtttcg gttaaccggg gcctcatcgt 300
30 tggaccatca gtggctcaac acaaccaag accgaccatg tcttacctca aaggagctgc 360
acaaatgtat gagaacgggtg tgtagcgta cgtagatggt gaattttagt cggatgttca 420
cattcgagca ttcg 434

<210> 68

35 <211> 434

<212> DNA

<213> Arabidopsis thaliana

<400> 68

40 ctccggcgaag aagtgaagtt tccggcgatc agaggtgata tggataagga gaaggatcat 60
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aaacaacacc ttttgttctt tgaaactgtt gataggaatc gatggctcta cgatggctct 180
gcgcttgaaa aagccatcta caggtaaat gcttgttggc ttcctttgct tgttaaatat 240
tctgagtcac catcggttag tgaagggctt ttggtccctc ctcttgattg tgaatggatt 300
45 tggcattgtc acaggcttaa tccgggtgag tataattctg actgtgagca attttacggg 360
agagttctcg acaattctgg agttctttct tctgttgatg ggaactgcaa attgaaaact 420
gaagatttgt ggaa 434

<210> 69

50 <211> 434

<212> DNA

<213> Arabidopsis thaliana

<400> 69

55 tggaaagtatg attgctgaag caatgagcaa agtgggcagg aagggtgtgg tgaccctgga 60
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ttatatctcc ccatactttg tgacagacag tgagaaaatg tctgttgagt atgacaattg 180
caagttgctt cttgttgaca agaaagtaac caatgcaagg gatcttggtg gggttctaga 240
ggatgcgatt agaggcggat acccaatcct cataattgca gaagatattg aacaagaagc 300
60 cttagctact cttgttgta acaagcttag aggcacactg aagattgcag ctctcaaagc 360

5 tcctggattt ggagagcgca agagccaata ccttgacgat attgccattc taactggagc 420
aactgtgatc agag 434

<210> 70
<211> 434

10 <212> DNA
<213> Arabidopsis thaliana

<400> 70
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15 ctgtcacagt caagtgctgc tgttcttcca gaagggtgtt gaagaatcct gagttaaagt 120
gttccttgga gaatctcttt gaaatccagg ctttgaggaa gtgttttgtt tcagggtttg 180
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atcagaacat ttgccaacta gggagtgtctg ctgctgtggg agaaaacaag ctgactcttc 300
catctgatgg tgactcggaa tcaatgatga tgatgatgat gagaggcatg actgctaaga 360
20 actttgacct tgtaggtac tctggaagat ggtttgaagt agcttctctt aagcgtggat 420
ttgcaggatc aggc 434

<210> 71
<211> 434

25 <212> DNA
<213> Arabidopsis thaliana

<400> 71
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30 agtctatcca gttctccaaa gatttaagga tctagtcgca gatgataaac ttaagtcttg 120
ggaaggcccc gacatttgca acaaatacct cggactcaaa tgcgccattt tcccgaagac 180
aaagcatctc gactcgcga gctccagtt taatgggtta aacttgagag gcaagatagg 240
caagatcctc aagttagata acttctcga caagttagaa gaagtcacca tcttccacgc 300
aaactccaac ggtttcacag gctctgtgcc tgatttcagc aatttgaaat tcttatacga 360
35 gctcgatcta agcaacaaca aactcacagg agatttccca actagtgtct tgaaaggaaa 420
caatctcacg tttc 434

<210> 72
<211> 433

40 <212> DNA
<213> Arabidopsis thaliana

<400> 72
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45 gatatctgga agaaaacact ctattgatat cacaatcact caaggtaaag ctctgtgctag 120
aaattggtgc acaagctgaa aacagcttac agagagagcc tgatgaagga aaaaactaga 180
gagagatata aaagctagga gcttgagtt acctccgaaa agccaaactt ctcatggaat 240
ttctttgtgt tacagtccag ctttctctta aggctgcagt caatgttgtt ctttttgaca 300
agttttaaacc tcgattcgac cttcttcttc aatccatggt gaaagaattc aggataagaa 360
50 gccacttcat ccatgcctct tcccatcacc tggacgagga atctgacatc aggctgtagt 420
gaattcttaa cac 433

<210> 73
<211> 433

55 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
60 <222> (1)...(433)

5 <223> n = A,T,C or G

<400> 73

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10 tgtacactttt tgggatattc atgttttttt tgtctttctg agaagaacca caaatcttct 180
ttctccttttc tctatctgct ctgcttctact tacttacctt ttgttctgtt tttctttttc 240
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cggattctgg tttcctcgtc tccagaaagt gaagtcggtt tcgcaaaatc tcgaggtggg 360
tttccagaga ttttctcatt tcttctagct tagtctccga catatttgca taggcatgag 420
15 agttttcaac agg 433

<210> 74

<211> 433

<212> DNA

20 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(433)

25 <223> n = A,T,C or G

<400> 74

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30 tttcagtttc ttaaacccta agccttcggt aacagtatct cgaacctttt tctcattcgc 180
gtctaaatcg aatctcgcca ctgttgaacc cataccatta tcggtctcag attcaaccga 240
tttgatgat gcacctgcgc agattgcgct cgacaagctt tttattccgc cggagaccga 300
tatatccggt gaagactcgg cgagttaac gacgaggata ctttaagggtt cgaatattgt 360
nctgagcaag tacgcgaggg acgcacaggt gggtcaggct gattatgtga agagtagtgt 420
35 caagacggag gat 433

<210> 75

<211> 433

<212> DNA

40 <213> Arabidopsis thaliana

<400> 75

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45 tcaaatttgg tcatcatgac ggagtataag caggagcagg aaatggagat tgaagctctt 180
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ccgcttttgg atgttaaaag tattcgagga atccatgtta gtgacctcac catcttgaaa 420
50 gagaagcttg aac 433

<210> 76

<211> 433

<212> DNA

55 <213> Arabidopsis thaliana

<400> 76

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60 aacactagta atttacagag tgtatgcaca ctggacaagg tgaaatcagc tctagagagg 180

5 gcagagagag atcctgctat gttcaagaaa cgtcaatcac cggatgatac ggtttacgat 240
cattatagga cggaggetgt agcgtcaccg gtggttgccg gatgtcctgg ttgtttatcg 300
tacgtgttgg tgatgatgaa taaccgaaa tgtccgaggt gtgataccat tgttcctttg 360
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tggagtttat att 433

10 <210> 77
<211> 433
<212> DNA
<213> Arabidopsis thaliana

15 <400> 77
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aacgctcttg cgctagatgg tgatagtatt gttgctgtgt ctagcagccc ggcgagtggt 180
20 cctgaaatta agtatggaaa gaaaggtctc gattcagctg ggaagccttc atggctctgg 240
tcgaatattc aaagcccgat cagatactct gagaagggtta tggcagggct ttcattctct 300
cagtttaaaa ttctaaaagt accaattagt gatatttctg aaggctcttg cgaaggagcc 360
aaaaatccta ttgaagctat atatgtatcg tcatccaagt ctaaggagaa tgggaaatgt 420
gatcccttaa ttg 433

25 <210> 78
<211> 433
<212> DNA
<213> Arabidopsis thaliana

30 <400> 78
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ccatcaggag cagcaggaga gaagaagcca ttcggaatct gattccctga accatccata 180
35 actttcttgt aaagaggaac caaaaccaca aagccaccac aatcatcatc ctcagcttta 240
aaacctgggc catgtggctc aacccaacca attgaccact ctggatcatc aggttcagga 300
aacaccacat tccaattctt atcctcttcc cctcctgatc ctgatccctc tcttccaatc 360
catcctctct tgggtcttct cactgatgaa gaggaagaac cagtcttact agtagtagtc 420
ttcttcagtg aag 433

40 <210> 79
<211> 433
<212> DNA
<213> Arabidopsis thaliana

45 <400> 79
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tgatcacaaa gcttcagtcg gaagaaaata aggtcgaaag cattaaaagg gacaagacag 120
ctacagaaaa gctgctgcaa gagaccatag aaaaacatca agctgaactt acttctcaga 180
50 aagactatta ctcaaacgca ttagctgcag caaaggaagc tcaagcgta gctgaggagc 240
gtaccaacaa tgaagcgagg tcagagttag agaatcgtct aaaggaggct ggagagcggg 300
aatctatgct agtccaggcg ctggaagaat tgaggcaaac cttaagcaaa aaggagcaac 360
aggcagtgtg tagggaagac atgttccgtg gagaaattga ggaccttcaa agacgctatc 420
aggctagtga gcg 433

55 <210> 80
<211> 433
<212> DNA
<213> Arabidopsis thaliana

60

5 <400> 80
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 ggttgtgtac tttattatgt aaataatggt tgcaaagaca ctgccaatag atgtaaatgt 180
 gtatttaggt tgtccccgta agggatgctt gcaattcttc aagcgactgt cctttggttt 240
 10 ccggcacgag catccatata aaaagcaatg acaatcctcc caccatcgca aatatgtaaa 300
 aggttccttg tgcgctccat tcaaacataa agttgaaacc ataactaacg aaccaccag 360
 tgggccacga tgtaaatgca acgattgacc ctgctgaaac ttttatattt atcggaata 420
 tctcagacat aat 433

15 <210> 81
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

20 <400> 81
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 aagaggatta atgcaacaat gatggagatc acttgccact cttgcaagca actatttcag 120
 ctgcctgtta cggctgatga gagtacgtcg tctcttgta tgagttacgt ttcctcggcg 180
 acaactgaag gagaatgcga gtgatccaat gcactctcat atatatatcc gtatgaacaa 240
 25 aagaaagcaa ataattgattt taaacgaaat gacggatatt tttgtggatc tgtatgagtg 300
 atcatttttt actatatgca ttgttttctt ttgccactgc atatttcata taatgactgt 360
 aaattttgag aatcatttga atttcgatta taattcttct gcttagtttt aaaaaaaaaa 420
 aaaaaaaaaa aaa 433

30 <210> 82
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

35 <400> 82
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 ataaaatcct gggaaaacaa aagagaaaag aaaaagaaaa aacccaacat ttcactctat 120
 tagctagctg aacaacacag atcaaccact aatcctttta caatgacaaa tacacaaatc 180
 tttactcttc taaaattctg tttacttcac catcatcttc tcaggctctc gaagtgcct 240
 40 ctctctctct ctctctcaat tagttgctaa tgtaaccgtt gcttcacacg tctcccattt 300
 aagtcacaac catcagcaaa taactccttt cgatgcctcg atgatgttaa agagtgtc 360
 ctcagcctag ccacatactc caatagctca cttagtaggg acgggcagct ttccttcaga 420
 taatcaaacc cat 433

45 <210> 83
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

50 <220>
 <221> misc_feature
 <222> (1)...(433)
 <223> n = A,T,C or G

55 <400> 83
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 cggatctcac cggtccttc acctaagaag atgactgtc ctgctcctgc acctgaagtt 180
 tctccttctc cttctccggc agccgcattg actccagaat cctctgcttc accaccatcg 240
 60 ccgcctctag ctgattctcc taccgctgac tccccggctt tgtctccatc tgcgatctcc 300

5 gattctccga ctgaagctcc tggctctgct nnnngcggcg ccgtttcgaa caaattcgcc 360
 agtttcggat ctgtggcggg tatgttaact gctgccgttt tggttatcta ggttgttacg 420
 atcaatgaag ctt 433

<210> 84
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

<400> 84
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 cgcggtttttc cccgttggcg ctcatgccgg tcctctctta gccgtcactc gccgtctcgc 120
 cgccgctttct cctccacca tcttttcttt cttcaacacc gcaagatcaa acgcgtcgtt 180
 gttctcctct gatcatcccg agaacatcaa ggtccacgac gtctctgacg gtgttccgga 240
 gggaaccatg ctcggaatc cactggagat ggtcgagctg tttctcgaag cggctccacg 300
 20 tattttccgg agcgaaatcg cggcggcaga gatagaagtt ggaaagaaag tgacatgcat 360
 gtaacagat gcttcttctt ggttcgcagc ggacatagcg gctgagctga acgcgacttg 420
 ggttgccttc tgg 433

<210> 85
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

<400> 85
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 agaagaaaaga taagcgttca ttgacgtata caagcacaca agtcctacag aaacatgagt 120
 agtactcaaa tcagaaacca agaactaacc attcaacaca aaatcttctt cttatcattt 180
 aaaacggcca gatgtcagat ccaccgggtt tctccacaag aatccgatta tactccggcc 240
 tcgacgtcag atctttgaaa ataacgtagg taataagcat gaagagcaca aacaggatct 300
 35 caaactcagc taatcggaag aaatagaaca ctgagtcac aaaccgagtc agaagagagt 360
 cgtctctcct cataccgact cgattagttc cagcacgtcg cccgatcatc gtcggtaaaa 420
 ttctccctcc ggc 433

<210> 86
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 45 <221> misc_feature
 <222> (1)...(433)
 <223> n = A,T,C or G

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 cctttgttca cattgttcga aagaaacgtt aagcccgtt actattgagc ctcacaaaat 120
 cggttctgtt tagattagaa gaaagctgaa ttttcagccg ctttaagaggc atggcttgta 180
 gtggcaactg aggaacggc tgcgttggat gctgccagca ggtgaaaagt tnctcatcct 240
 cctcttcaan ncatgactnn ncatactatt tccaccaag aaacaacgac gtcgatatcg 300
 55 acacattctc tgaatccac cgatgaggaa agaacttaac acacaagtga tacgcagget 360
 tccttgattt gttgagagt atttttgtat tgatgggagt gcttttatgt ttaaactttt 420
 tcatattaat tgt 433

<210> 87
 60 <211> 433

5 <212> DNA
<213> Arabidopsis thaliana

<400> 87
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10 gagttccaac aaaactctat gatattctcaa aagccaaaag aagatgtaac aaaccagaat 120
gtacatcaga cttatatcag aaacttttcc aagacccaaa actcatcaaa gtttaaaggc 180
aaaatgcaat taataacatc tctctacttc tttaaaagct gtaaaagatc tttttcttca 240
tcttctcatt ttctcttgct taccatttcc atatgttaat gctgaagaaa tctcagaagt 300
tttaatcaca cgcagcctct tcaccgaaga cacaaacatt tgccatggaa catctcctac 360
15 aagcatcttg tctccttcat tgtcttcata tgtaagagta tattctccat tcccatctaa 420
taatccagtg att 433

<210> 88
<211> 433
20 <212> DNA
<213> Arabidopsis thaliana

<400> 88
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25 cctaaaacgg aaaaaacaag cgcagtaaaa tctgaagaag gcagtaacac ggaaaacacg 120
aatctcactt tccatattcg atgctaaca gattcctttg cggacaagat cacaacatca 180
ggattttgac cgaagctagt aaatccggtc gcaaactggt gtcgagaaca taccgaaccc 240
agaactttcc tttcgggaaa agcagatccg ccacatctca gacctatgac ctcttctccc 300
aaacctagca agaagagaga catcaaaaact aacccttacc tccctcgaca atctcccata 360
30 aactacttca aaagctaaac caatcttcag atccggcaaa gaggaagcca ataacggcgg 420
aagctgatgg aca 433

<210> 89
<211> 433
35 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
40 <222> (1)...(433)
<223> n = A,T,C or G

<400> 89
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45 tttgatcaat ttgaaacatt gctactttcc gactttcctt tcctnnntac tttttttgtg 120
cactatagag ttagaaacaa cttctatcat ctgccagaag catgatagt atgccactct 180
ctttatccat ggcttaagnn ntcagtaacc tgatgcacct tacgagactc tgagcttgag 240
tactgtccca cggctcgggc ataaggaatt gattgtttcc cggctgcaag cgcattcaca 300
ttttcaacta aatactgtct tgggagcctc ccgaccacat taccttcttc gttcccttct 360
50 ctatcgagga aggcgaaatg aggaataccc tcaacaccaa actcatcaa ctcttgctcc 420
catttcgtgt tgt 433

<210> 90
<211> 433
55 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
60 <222> (1)...(433)

5 <223> n = A,T,C or G

<400> 90
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10 atgagttagg catggggacc accgggaaca attcaaatta cggaaccaca agaaacccgc 180
atgaccta aaaggtacacg ggcggatctt cctcaggttc agcagctatt gtagccgctg 240
gactatgnnn agctgctcta ggaacagatg gtggaggttc cgttcgcatt ccttcagcac 300
tttgtggtat aacgggactg aagacaacat atggtcggac agatatgaca gggtcattat 360
gtgaagggtg aacagtggaa ataattggtc cacttgcttc atctctggaa gatgccttct 420
15 tgggtgtatgc tgc 433

<210> 91
<211> 433
<212> DNA
20 <213> Arabidopsis thaliana

<400> 91
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aattgtacat actaatggat ttaaaaaataa gaggagaaat aattttacgac gaaattggat 120
25 ttggaactaa tcaagtttcc gaggtccatc catgtttgct tcgctccaac gtattcacca 180
tttttaattt gtgttttaat cttctctgct aagctattag agctatccaa gccattgtca 240
tcaagcctag agacatgctt gagaagaggt ccccatgaaa acacaaaatc ttcaggggat 300
atccaactat ctcccaaaat cactcctcca agatgaagct tcaatttgcc agattgaact 360
gcgtcaataa ccgataaacc gagcttaacc gcgattttgc caccataaga ttcagcaaca 420
30 atgaagagag ggc 433

<210> 92
<211> 433
<212> DNA
35 <213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(433)
40 <223> n = A,T,C or G

<400> 92
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tgatgacaca agcccgaaac aaaagactta tgtccacttt tctatacaat taacaagaac 120
45 cctaatacag taatacagaa acaatccgat ggtggaaaag aaggtaacct agctttgcta 180
ttttaagaga tgcaaanana aaaaaaaaaa ttggaagtgt acaccacgat ggctcccacc 240
tatgctaaat actttcacaa tcgtgggtta ttaccggtat cagattcatg tcctgagcta 300
tcaactgtcag agccactaga acccgagcct gagccactac tagaactgtt agaactactt 360
gatcctccaa catttacttc ttgtcgaaca gtagatgcca catgacctaa ttcagtaact 420
50 tttgacgatt caa 433

<210> 93
<211> 433
<212> DNA
55 <213> Arabidopsis thaliana

<400> 93
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gttcctactt cttccaagaa atcggaacc gacaccacaa agcgtgtgcc gtgcgagaaa 120
60 ccgcctttct cgggtgggaga tctgaagaaa gcaatcccgc cgcattgttt caaacgctca 180

5 atccctcgt ctttctccta ctttatcagt gacatcatta tagcctcatg cttctactac 240
gtcgccacca attacttctc tctcctccct cagcctctct cttacttggc ttggccactc 300
tattgggcct gtcaaggctg tgtcctaact ggtatctggg tcatagccca cgaatgcggt 360
caccacgcat tcagcgacta ccaatggctg gatgacacag ttggctcttat cttccattcc 420
ttcctcctcg tcc 433

10 <210> 94
<211> 433
<212> DNA
<213> Arabidopsis thaliana

15 <400> 94
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ttctccggtt ccaaaaccta cgccatgagc ggcaaaatca tgctaagtgc aatagtaatc 120
ctcttcttcg tcgtcatttt aatgggtctt ctcocatctt acgctcgttg gtatctcctc 180
20 cgtgctcgta gacgtcatct ccgtcgtcgt agccgtaacc gtcgcgctac gatggttttc 240
ttcacgctg atccttccac cgccgcaact tccgtcgtcg cttcacgtgg acttgatcca 300
aacgttatta aatctcttcc tgttttctact ttctccgacg agactcataa agatccgac 360
gaatgcgccg tttgtttatc ggaattcgaa gagagcgaga cgggtcgggt tttgccaat 420
tgtcaacata ctt 433

25 <210> 95
<211> 433
<212> DNA
<213> Arabidopsis thaliana

30 <220>
<221> misc_feature
<222> (1)...(433)
<223> n = A,T,C or G

35 <400> 95
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actactcatg aacctcttac ttatcggttg gatttctctc tggatcatca aacccacgac 120
catatggata caatcttggc gtcaagctga agataccgcc agacacactt tcttcggcta 180
40 ttacggtctc aactttgcg tattttcatt cctcctatt gctctctcta tcgttggact 240
catttacttg agtttactgc cacaacatca tcaccaaca agaggaggga ggggtgcagc 300
tattactgtc tcaagaccag ccattatcaa tagcttcatt ggaattntnt cttgtttcga 360
gatacttgct cttcttttct tctactctt tcttgcttgg aacttctatg cccgtgtctc 420
taacgacttc aag 433

45 <210> 96
<211> 433
<212> DNA
<213> Arabidopsis thaliana

50 <400> 96
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tgaggaggct aagcgtaaga gaaaagaaga aggaaaaagt agagcttttt tgggaatcag 120
aatcatcatc gatggtgaat ccaaagcgtg gcaataggtt tttcaaatac agaattgtgt 180
55 aaattgctct ctatcttctt ctctttcaaa ttctcttctt tttgttgtat tcaataactt 240
tttccccact ttgatgggct gcaaccacat attcttcttc tatctttaac tttcccacc 300
aaacttctcc ttttttttct ttttttttgg gttctgggtc tgcttttttg ttgttgttgt 360
tgttgaatga aggtccgtaa gggaagaaga cagatgattg cgaaagagca agacgaatac 420
aaattacgcc aac 433

60

5 <210> 97
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 97
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 tagagatggc tccaactcag gatcccaaca gtgtcggagg cgggtgcgaag aaagatgaag 120
 ctaccttgaa gggtccgtct aaggatccca agaagaagga cgagaaaaag gatgaggatt 180
 tgtctgaaga ggacttgga ctaaagcaga accttgagct ctatgttgag aggggttcagg 240
 15 atcctaattcc ggaattgcag aaggctgcc ttgagagcat gaggcaggaa atccgagctt 300
 caacaagtgc catgacttca gttcccaaac cactaaagtt tctgcgtccc cattatggaa 360
 ctcttaaagc gtttcatgaa acaatggctg attctgatct caaaaagtac ctgtccgata 420
 tcctgtctgt cct 433

20 <210> 98
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

25 <220>
 <221> misc_feature
 <222> (1)...(433)
 <223> n = A,T,C or G

30 <400> 98
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 cctctctcct cctccgccg ccgcacccgc ttcttcatcc accgcggcgg attcgtctct 180
 tactctccc ggtggttggg cttctttata caaactcgct gtttgttgct ctggtctctt 240
 35 ccacgctgga attctcctcg aaaactccga ttctcggtta gaacgtgagc taggtcccga 300
 tcaaaacctc gatccgaaac ctactacgac ggatctagct cttaacgacg aagaagtttn 360
 naaaccagtt ggatctggnn tagaaacgac ttcgttttgg tctctatatg atgatctcta 420
 cacagatact att 433

40 <210> 99
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana

45 <400> 99
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 agaacagtga tcacgcccga atgagtaaag aaattgcgga caagagccac cgactaaggc 120
 aaatgagagg agaggaactt caaggacttg acattgaaga gcttcagcag ctagagaagg 180
 cccttgaaac tggtttgacg cgtgtgattg aaacaaagag tgacaagatt atgagtgaga 240
 50 tcagcgaact tcagaaaaag ggaatgcaat tgatggatga gaacaagcgg ttgaggcagc 300
 aagtatgtgt cttacctct ctgttgataa caaatccctt tcttttgtct accattaacg 360
 tacacactcc taaatttaac cccagttgt ctacaacaca tatgtttgat catactgtga 420
 gataaatgaa taa 433

55 <210> 100
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 100

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acaatacaaac aacacacaga caggtcaatc atttgttcaa ggaattattc atgatcttca 120
agattccaat aactgagaag gaagactact aatcagcttc tgtctcaaga aatcctcata 180
agcctcaact atgagatgat catcgtccca cttatcacgg aaagtgtctg attgtgtagc 240
aagtctgtag tatccgccat ttatttctctg atatctccat tgttcaccgg gcggtgcacc 300
10 aatttgctct gctatccaat taaggtaatc aacctgacct ccaccaagtc gatgtgtgta 360
tctcttaggt tgcccgaag cctcacgctt tgcatagtag gcggtaacgt cttccatcat 420
tcggacgcgt gg 432

<210> 101
15 <211> 432
<212> DNA
<213> Arabidopsis thaliana

<400> 101
20 tttttttttt tttttatata aactatcttt ctttcaccga ataatatatg caaacgcaaa 60
catcaaagtt caaaaacca tagaaaagca aaccacccga ttaactaaaa aaaaaaaaaa 120
actcctttct cttttttgtt ttgtttttca cttttaagtt ttgcaatga taacaacgat 180
ttagtttgac taaacaacga taagtaatat aacttagttt gaaataaaaag aaagtacttt 240
taagagtgtg gtagtcttga gaggaaatca aataacaatc ttcatacagg cttgaactga 300
25 ttagtgcttt gctcctcaac aaactcttca ggctgttctg tcatcaagtt cttctccac 360
ttggagttgt acggatcctt aaaactgttc tctctgttgt tgtttccgta cgagtacgat 420
tgctgttctg ag 432

<210> 102
30 <211> 432
<212> DNA
<213> Arabidopsis thaliana

<400> 102
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ttttagataa tgcacacaca aatctcccca cttaatcgaa atcttccaag gctagcttca 120
gcttagagag ccatctcagc ttgtaaggca gcgagttcat ctctctcagc agtaggttgc 180
ttctgagctg gagcacgagc aggcttggtt cttgaggca catggattgg aacaggetga 240
agaagttgct cttctagctc agcgcttct agttcgtaa gttctgcttc caattcatcc 300
40 tcatcaaaat cattagcccc aaatggagcc gacaatgctt cttggatctg tttcatgttc 360
tcagtttggt cattgatctc atccattgtc ttgtcaacat catcaatgtt tgttgctttc 420
tgcatagctt tc 432

<210> 103
45 <211> 432
<212> DNA
<213> Arabidopsis thaliana

<400> 103
50 tcgagcggcc gcccgggcag gtactggctt tatcgtctct tctgtctctg tttttgggag 60
aggtgttctt gttgaggaca agcgacagat cgcaaaacgt tacttgctgt cacatttcat 120
aatcgacatt cttgctgttc ttccgcttcc acagatgggtg attttgatta tcattccaca 180
tatgagaggt tcatcgtctt tgaacacgaa gaatatgttg aaattcattg ttttcttcca 240
atatataccg aggtttataa gaatctatcc gctctacaag gaagtgacaa gaacttcagg 300
55 catactcact gagacagctt gggctggagc tgttttcaat ctcttctct acatgcttgc 360
tagtcatgtg tttggtgctt tctggtattt gttttctatt gaacgcgaaa cagtgtgctg 420
gaaacaagct tg 432

<210> 104
60 <211> 432

5 <212> DNA
 <213> Arabidopsis thaliana

<400> 104
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 acatttttct cttgaaacct aagaagtcac cacgattttc tgtaatttcc caaaaacaca 120
 gagtttttgg tccatctagc tagatagctt cggatcagc attccttgct tctacaaaat 180
 gatcactcac aatgtagaat tgtcccagggt ggtacctagc gacacaccgt gcttctttat 240
 gatcttcacc gcctcaagaa ggacctcttg ttgtgtattg tatagctcct cttttccctg 300
 agacaaatga agcttcagggt gtcattgaca agctttggcc tggctgtttt aggatcaatt 360
 15 tcaaccttga gaccaatttc acggagttga ggcacatcca cagagccttt aatctccaac 420
 tcagccacta ct 432

<210> 105
 <211> 432
 20 <212> DNA
 <213> Arabidopsis thaliana

<400> 105
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 tgcggatgct aaagatgatg catactatca cctctcattc cagtgagaat cgcattgactt 120
 catctgctgt tgctgcatgc atgtcccatc tgctcttacg tcctctattg gctggagaat 180
 gtgatctaga aggttttgac actctaggag ataactctgc ccagcttctt gctgccgcca 240
 atgctgccaa taatgctcaa gccattgtca cagccctttt ggaagactat gggaatatga 300
 tcaatgatga aggtcttggg agatgctcca cttctactga ttctcatatt ggcgacagt 360
 30 ggcctgagaa ctcaagtgat gaagaggaaa tagtgggtta acatcctgac ttgcatactc 420
 tggatataga ag 432

<210> 106
 <211> 432
 35 <212> DNA
 <213> Arabidopsis thaliana

<400> 106
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 tgattcatct tctcttgatc ttttaaacc ctaatcgatt tctcataaga atcaccgacg 180
 tttctcaa at cttttggcga tgtctagaat tgacgaagaa gatgatcaga agacgagaat 240
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 agatgaagat ttttcatctg gcgttgctgg agataatgac cgtgaagttc ccggcgaagt 360
 45 ggattttctt tccgacaaga aatctagggt ttgtcgtgaa gacgacgaag gatttcgtgt 420
 gaagaaggaa ga 432

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 50 <212> DNA
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 cttctcattt ccgattatgt tcccaatggc agctcctct gtttcttcac cgccactaag 180
 gcaagctcaa gctcatcttc ttctgtctca ttacaaaacc ctcttacttt tgaagcacgg 240
 ctcaagatag caagaggaat ggctagagga ctatcttaca tcaatgagaa gaaacaagt 300
 cacggtaaca tcaagcccaa taacattctc ttgaacgctg agaatgagcc catcatcacc 360

5 gatttagggc tagaccgcct catgacacca ggcggtgaat ctcacaccac tggaccaagt 420
tcgagctcac cg 432

<210> 108
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10 <212> DNA
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15 <222> (1)...(432)
<223> n = A,T,C or G

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ttctggtgat agcaaaaaga tttnnnggagt tttctacaag gccaacgaat acgctaccaa 180
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ccaaggacat cagtacatcg tcaactgatga caaggaaggc cctgattgctg aacttgataa 300
acatatcccg gatcttcacg tcctaattctc cactcccttc caccggcggt atgtaactgc 360
25 tgaaagaatc aagaaagcca aaaacttgaa gcttctcttc acagctggta ttggctcgga 420
tcatattgat ct 432

<210> 109
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30 <212> DNA
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agaagtgatc aggctccata atcacccctgt tcaaacttgt ctccagggta atacactgca 180
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tctgtatcgg catacttcaa aaacaccttg ccaaggcctg ccaactggctc accattgggg 300
cttgagcgcg gaatcacaaac attggtcaaa gcacctgcat tttaagagtt aaagaacaaa 360
40 acatttcgaa tacaagacaa gaaaacacag acaaaaacaa gtcagttttt tcttttaaga 420
aatagtggcc ag 432

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45 <212> DNA
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tctctactta gtcactgctg tctgaagagg agagtgaatc tcgaccactt ccttagcctc 180
aatttgcttc tctgcaactg cctccgcctt ggagaagctc ccgaatatct tgtccatggt 240
gtttttgaaa caagtcttgt gttcatccat tgaggcatgt atgaattcat ccatgtgatc 300
cttgagggtt gcaaagaaag tggcgttatc atccttcacc ctcttcctgc atgatgatgc 360
55 aggcacttgc ggttttggcg ggttctcggt ttcgattttc ttggtatcca ccacgggttg 420
atttgcgggc cg 432

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60 <212> DNA

5 <213> Arabidopsis thaliana

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 10 gaaagtcaca agaacacata gattaaagca gagaggaccc atatagtcac ttgctgggtat 180
 cgaggacaca acgaaggcaa gtaccttcgt gcaatagatc gaaagcctta ttgatttctc 240
 ccaagggtcaa gttgtgtgtt atgtattcat ccacttttat ctcttgttgc atgtactttt 300
 ctacaagcca aggcacttgg gttcgactct tgaaaccacc aaaagctgtt cctttccaca 360
 cacggccagt cacgagttgg aacggacgag ttgatattctc ttgtcctgat gctgcaacac 420
 15 caactatgac cg 432

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20 <213> Arabidopsis thaliana

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 25 gacaaaaatc ctcaataaat atgaaaatta cacaaatgtc atcaaataac ttgctaattg 180
 tttgggtcgg atcaggtggg agtaatgttg agcttgttga ccagtagcc aagttgctca 240
 gcaacacagt ttgatcctgt tgacccatag gaactgaact tattgactga attttcaacc 300
 cccaaaaatc caaacacatc ttcttcaaac acagggctca gcttttcat ctcttcaaga 360
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 30 tcatgagatg ac 432

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35 <213> Arabidopsis thaliana

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 40 actggaaagt tgacttgttt atggacgac aagccatata aaacactctg ccttgttctg 180
 attgcttgac tagcttcata ggtttgactc gtgcgatata tactctcaag aacaaaccca 240
 ggagaagaga agcttttaaa aaaaaactct ttaccgatat cttgtaccag agctctgtcc 300
 ttgagttctt gtagatggat ggttattgct cgttttgcca tactttgcca attcgttatt 360
 agcatgggaa agaagcttct gagcgtttct cagtctcttg gtataatcag tatcagcaag 420
 45 tttaaatgac gc 432

<210> 114
 <211> 432
 <212> DNA

50 <213> Arabidopsis thaliana

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 55 aaaaaaagag aaatgatga gttcgtagag ttttttatca gaaacatctt ctggtgtttg 180
 ttgtttttta ctctccttct tttttcttct atatgaccaa agtagtaagt actaagcatc 240
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 tctttgcaac tgtatcattc gcgcgtagat tccatcagga tggttcttga gaagatgcga 360
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 60 gcggacgcgt gg 432

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 <211> 432
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10
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 gttcccggcg aagatttcat atctctccgg tatatcttcg caccgtggcg atgaaatggg 180
 15 taagagaatg gaaggattcg ttagaagcgt cgatgggaag atctctgatg cgtctttctc 240
 cgaagcttca tctgcgactc caaaatcgaa ggtgaggaag cacacaattt cagtatttgt 300
 tggagacgaa agcggaatga ttaataggat tgcaggagtg tttgcaagga gaggatacaa 360
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 tggaactgaa ag 432

20
 <210> 116
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

25
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 <223> n = A,T,C or G

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 tcacacaaga aacaaaaaaa gaagactaat aagaaccaga aacatagatg agaaacatat 180
 35 atcctacgat aaannncaaa agaggcatta catctccatt aaacctaaac aatccaagtc 240
 cttctttctta gatagtttca gcaatcacag aagccacctc cttcaaaaaca tctatcttct 300
 gcgacaacaa ctcaagttcc ttagcctcca ccatcttcat cttctcttca atcctcttct 360
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 tcgcaacaac cc 432

40
 <210> 117
 <211> 432
 <212> DNA
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45
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 <222> (1)...(432)
 <223> n = A,T,C or G

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 tagccatttt ttaatttaac ttttggccca aataatactt ctgccaaagtc tatacaagaa 180
 55 caaaaacttg aactctgtta gagcggtag aaatgtcttg atttgaagct gcataatctg 240
 tactggttta ctctgtctgg tcaactgacac ggaatagctc gatgagcgtg nntcggattt 300
 tgattctcag agcagaggct tcatcggtc taaaccactt cttgtcgnnn attcccaggt 360
 ctttctttt cagcctttga ggcgcctctt caatgaaccg tttaatgaag aagagcacia 420
 acggaccaca at 432

60

5 <210> 118
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
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 <222> (1)...(432)
 <223> n = A,T,C or G

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 tctcttgggt tgaagccaaa gaaggaaatg ataatatata catacacaca cacacacaca 120
 aaaatcaaag aaggaagttt tataggatta tatatatagc tagagagtct catttcttgt 180
 atgtttctgt ttaatcttct cttttgtctc ctttttttat cagtatatgt ctgtatgtat 240
 20 ttatatatat agatctgaat atagtgtgtc gatttctaac ttatttcgcc tcttcttatt 300
 ctttngnttt ttgctttaag tttnnnttt tgtgtgatga tgaacaaaga catgttactt 360
 caccagcatc agcaaccaca acaagacgag aatatgtcga atctaacatc agcttcggg 420
 gatcaagcaa gt 432

25 <210> 119
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

30 <220>
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 <222> (1)...(432)
 <223> n = A,T,C or G

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 cttactttta tcacaacata aataactata taagaattta tttatcaaag gagctttaat 180
 tacaaagctc aattcacaag tccagggtcg aaactaacgc ccgttgacgg caaccatata 240
 40 ttcccgtcaa taaaactcgc cacagtgaat tttccgctt ccgtcaccgt caaagacgga 300
 tgacaccac tccatttaac ccgaccgaa anngatgatc caggacccga attnnccat 360
 totccgtaaa acagagattt gagaccgaaa ccaccgacc aaggagacca acccgacgga 420
 tgaatcgacc cg 432

45 <210> 120
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 <212> DNA
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50 <220>
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 <222> (1)...(432)
 <223> n = A,T,C or G

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 tttnnngtaa aaagcaacct caaaggctcag aagtaaaatt attgagattt tacagcacag 120
 ttttggtaaa tattaaagca caccgcatca gagattctgc aacacaaaca agaaataaca 180
 tcaataaaaa ccagacacac attggcacta atttctacgc tctctctctc tctaaaccga 240
 60 agataagaga ttctctgcag acaagacaat atagaatatt aattgnntc tctctctcac 300

5 cctctctctt tctctttctc tctctcccta ttaggtttca ttgaatctaa aacggaaaat 360
cctcgggatt acttgccagt aaagaaaggg tttacatata gttgaattgg tccgaaactg 420
aggcgatgat ta 432

<210> 121
10 <211> 432
<212> DNA
<213> Arabidopsis thaliana

<400> 121
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gactcaagac ctgagaagaa gcaatcggat aagagtaact atgctcgagc tgagctgttc 120
cgtgggaaat caggttctgt ttctttcaat ggtctgactc atcagctggg tgaagaaagt 180
aaactggttt cagctccgtt tcaagaagag aaaggttctt tcttgtgggt tttggctcct 240
gttgttttga ttcttcgtt gattcttcct cagttcttct taagtgggtat cattgaagct 300
20 accttcaaaa acgacactgt tgctgaaatt gttacttctt tttgctttga gacgggtgtt 360
tatgctgggtc ttgcgatatt cctgtctgtg actgaccgag tgcagaggcc gtacttagac 420
ttcagctcca ag 432

<210> 122
25 <211> 432
<212> DNA
<213> Arabidopsis thaliana

<220>
30 <221> misc_feature
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<223> n = A,T,C or G

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ggtaagattg ctagggtttt gtttggaaag agatgagagg atacttgtct atgagtttgt 120
tcccaacaaa agtctcgact acttcatttt tggtcagtta tgttcaatat ttagcctaag 180
ataaattttt taaaaattgc ataccattca ttgtttctaa cattgtaaat tcatatgnnn 240
ngactctacc atgcaaagcc ttctggactg gactagacgg taaaaaaatc attggaggaa 300
40 ttgctagagg gattctttat cttcatcaag attcacgact cacaatcata catcgtgatc 360
tcaaagaagg taatatcctc cttgatgatg atatgaatgc aaaaatcgcc gactttggaa 420
tggcgagaat tt 432

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45 <211> 432
<212> DNA
<213> Arabidopsis thaliana

<400> 123
50 acatccattc atgggaagca tttgacaagg gacaggacat gcatatgcaa gcggtctcctt 60
cccaagctga attgctctat aagagctttc aggttgcaaa ggagaaactg aaatctcaga 120
caaaggacac aatcatggac aagtacggga atgcagctac agaagatgaa attccaatgg 180
agcttttact tgggcaaagc gaaaggcaag ttgagtatga ccgagcaggg aggattataa 240
aaggacagga ggtgatattg ccaaagagta aatatgaaga agatgttcat gctaacaatc 300
55 acactagtgt gtggggatca tattggaaag atcatcaatg gggatataaa tgttgccagc 360
agatcattcg caatagttac tgcacaggtt ctgctggaat tgaagctgca gaggctgccc 420
ttgatctgat ga 432

<210> 124
60 <211> 432

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5  <212> DNA
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   <400> 124
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   ggttttagtgt agtaaaagca caagcacaag ctcaagttcc atgtttcttt gtttttggtg      120
   actctttggt tgacaatgga aacaacaacg gtcttatttc tattgcaaga tccaattact      180
   tcccttacgg tatcgatttc ggcgcccta cggcgcttt ctccaacggc aagactactg      240
   ttgatgtgat cgctgagcta cttggattta atggctacat tcctgcgtac aatactgtga      300
   gtggtcggca aatactctcc ggagttaact acgcttcgcg agctgctgga atccgagaag      360
15  aaaccggtcg acaattggga caaaggataa gcttttagtg acaagttagg aactaccaga      420
   ccacagtatc gc                                                              432

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   <211> 432
20  <212> DNA
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   <223> n = A,T,C or G

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   tgttatcgac attgcaaccg ccgcgttctc tatcactcct ccctctacgc cggttccaaa      120
   tatctaaaac catcgtctcc gcagcttctt cgaagaccat cgacacttcc gttatctctc      180
   caccacaatc tcaaattctc accactcgtc gttcactcct ctccggcgaa accacagctg      240
   tcgaaatcgc aaaatcttac ctttctcgta tccgtctcac tgaacctcag ctcaaagtct      300
   tccttcacgt atcggagaat gttctcaaag atgctcaaga gattgatcaa cgaatcgcta      360
35  aaggtganna attgggtcct ctcgccggag ttttgatcgg cgtaaggat aatatatgta      420
   ctcaaggtat gc                                                              432

   <210> 126
   <211> 431
40  <212> DNA
   <213> Arabidopsis thaliana

   <400> 126
45  tcgagcggcc gcccggcagg tacacaactt ttgtaaaaat cggcgtaatc atgttctagc      60
   tcgtagaaaac tattcaaaac aactcccgag ctcttcactt ccgattccct aacttcagtc      120
   ataaaactttc ccatgtcgga ttctccatcg ccatctatga tctgttcttc agttatcaca      180
   atgttcccag ggagctcggg aatcacaaat ggctcagagc ttgaagccac tctcttctgt      240
   ggtttatgca ctccgatgca ataaccagcg cataaagaga agtagccagt gccgtggaac      300
   acaagtcttg gcacattgaa cttctcagca acttttagtg accaaggga gaacatgtta      360
50  ccgacaagac agtctggtct cattgtcacg aggagctcct ctagtggctc ttcgaaatat      420
   ttcattgcga g                                                              431

   <210> 127
   <211> 431
55  <212> DNA
   <213> Arabidopsis thaliana

   <400> 127
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   cgtaatccga ggaagagatt aaaatcgga agtgcgaaaa tgccgggtcat ggagaaattg      120

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5 aggatgttcg tggcgcagga accagttgtg gctgcttctt gcttaatcgg cgggtgttga 180
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 aagcaatgac ttccccgtgt ttcttacatt cagatgatcc ctattccttt tttgtctttt 360
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 10 aggcatgtgt g 431

<210> 128

<211> 431

<212> DNA

15 <213> Arabidopsis thaliana

<400> 128

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 20 gataggaaac ctacactact ctttgtgatt tgattttggt atctgaattc agagtcttgc 180
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 25 actgcttctc t 431

<210> 129

<211> 431

<212> DNA

30 <213> Arabidopsis thaliana

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 35 gcttttgatt cttctctctg aagatcaatc attcaaaagc ccattgggtc tctctgcgaa 180
 cctcttcttc ttctcttggt gtgaagtcgt tcttaatggt gaacgttggt cggatctctt 240
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 tgatattcag gtaattagca gccagaatga gttcaaagag agtagcttga tcgacttcca 360
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45 <213> Arabidopsis thaliana

<400> 130

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 50 tatccaatcg ctggettggt tctacttttg catctctctt ctcacatca tcaatatcct 180
 ttatagcatc ctttgcaagg cttgtcacat atgttccagc caatgcagta accaacagac 240
 ccaccccgag agttaaaagc tggccgtttc ctccaggcaa gccaacatta gattcttctt 300
 gaatgattgc tcgtccaaaa gcaccggcgc tgacataagc ccaagagcct ggaagcatac 360
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 55 tgccaagaga g 431

<210> 131

<211> 431

<212> DNA

60 <213> Arabidopsis thaliana

5

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tctcctcacc aatctgccgc cggtagcaac tccggcaatg agaattctaga tcgtcgtctc      180
10 ttaaaagatc tcgttgagat ggttccccctt atcgagcatt acatggaaca taaagaaagg      240
agttcgttta agcggcgtgg ttccatgata tactactaaga tgccttcaaa agaatccttg      300
tcccgaaggg gaagaaatgc ttctcaaaac gtcccaggaa gaaagaagag agaccaagag      360
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ggtgcagaaa a                                     431
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15

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<213> Arabidopsis thaliana
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20

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tggttccgaa ggtatggtcg gtcaagtgaag ggcgcgtaaa gccgccggtg taatccttca      180
25 gatgattaga gaagggaaaa tcgcggggtcg ggctattcta atagcgggtc aaccgcgaac      240
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gatgattgca ggaagtgaag ttttctcatt agagatgtca aagacagaag ctttgactca      360
gtcttttcgt aaagcgattg gtgttaggat caaagaagag acagaggtta ttgaaggaga      420
agttgttgag g                                     431
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30

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<210> 133
<211> 431
<212> DNA
<213> Arabidopsis thaliana
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35

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<221> misc_feature
<222> (1) ... (431)
<223> n = A,T,C or G
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40

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gaacttgccg tctacgcgcg cggagaagct gatccgtgag ctaaaccttt tcccgcagca      120
ggatctgaat gtgatcgatg tcgctgattt gcctctcact gctgcggagg gaccggggat      180
45 tgttgaacgg aagttcgtat tcccgaatat acttgccgat ggtggcccta ctgtcgacga      240
tttaggtcat catgctgggt attacaagct cccgaaatct cgtggcgcaa gcatgttcta      300
cttcttcttc gagtcacgga acnnnaagga tgctcctggt gtgatttggt tgacgggagg      360
gcctggatgt agtagtgagt tggctgtggt ctatgagaat ggtcctttca agatcactag      420
taacatgtct c                                     431
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50

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<211> 431
<212> DNA
<213> Arabidopsis thaliana
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55

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tacgatcatg gggaatgtta aaggggtcaac caaaaaatcg aatcttgatc gattccttca      120
ttgcataaca cccttagtgc caccccaatc tctcccaag acggagatta gaaccctaaa      180
60 tcgattgtgg catccatggg agagacaaaa ggttgagttt ttcaggttga gtgatttggt      240
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5 ggattgttat gatgaatgga gcgcttatgg agctagcggt cctattcatg ttaccaacgg 300
agaatctctt gttcaatact atgttcctta tctctctgcc atccagattt tcacctctca 360
ttctctcttg atccgcttaa gggaagagtc tgaagatggg gaatgtgagg gtagagatcc 420
gtttagcgat t 431

10 <210> 135
<211> 431
<212> DNA
<213> Arabidopsis thaliana

15 <400> 135
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taagttgtaa atattacaga aaaagaaaaa acgtaaaaca aacctacaaa taaacacaca 120
cagaggctac aatacatgac cacaaaagct tctggaggag cttctttctg cctattattc 180
ttccaacat ggtgggttaga acaagtatgt atcactaacc ctacaagtct cacattttta 240
20 ccacatatac accacagcaa tccagagacc accaattttt gaggacaatc accgcaattt 300
cttctacatt acggcatacg gcaaacctat attgctgtcc tcgagattga cttacccact 360
ttactcttcc aagctccaag agtctcattg tcagaagtct cagcattctc ttcagcttct 420
cggacgcgtg g 431

25 <210> 136
<211> 431
<212> DNA
<213> Arabidopsis thaliana

30 <400> 136
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taatataat gtattcttgt agccacatat tgggtaaaca attctcacat agagctaaca 120
aagtcaacga tatccaccac atcatggagc agagagttgg agttcacaaac tctacagttc 180
aatctgattt gtccttgagt tctgtagtt ggtgtaatgt tccccatcct attcattgcc 240
35 tccacaaatg cattgaagaa tgtttgtgtg ccatcagcat atgctctcac caaggggatt 300
gtgtcagtggt cattgggggt agagaacaac tcttggtcgc tctggataag accttttcgc 360
tctttgagat tcacgtagta tttgttgctg aaaaccgtag gcgtacgtag atcaaaaatct 420
accaaggcac t 431

40 <210> 137
<211> 431
<212> DNA
<213> Arabidopsis thaliana

45 <400> 137
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gcacacaatt tagaacagaa aaagcaacgt gacaaccaga tttcagacga gacattacat 120
atagtacaat gagaagaaac gttttggatc actgagcata gcaagagcca ggtcccaagg 180
ggggtcttcg tgcgtaaaag ttatccactg gagccgctgg aacgccacgg ttattcagta 240
50 gacatctgaa gtagtgtaga cgtggcaatg cggttaacgt tatgttcccc tttgacacgg 300
cctctctggt gctccacatc cgttctgcag ctgctgcagc acgaggccaa atggtctgaa 360
ggacaacgga tgtatcagct gtttcacccc acatgcaaac ttctcctccg atgacaagct 420
tttgagaga a 431

55 <210> 138
<211> 431
<212> DNA
<213> Arabidopsis thaliana

60 <400> 138

5 ccacgcgtcc gcaagcatca ttttcccgag aaaactatga attcaaacat tttcccacca 60
 tcgaaacaac aaaacgagct taataatata caacaatcct tctcaaactct ccaatctcaa 120
 tgctccaatt tactcctcaa cgtttcacaa acccttaatc ctctcttcaa cgccaacacg 180
 aacaacaaca aacctaatat attctctgct ctcaattcgt ttogtgatca agctaagcaa 240
 gcttttagatt ctagaatctc tcgattcaat tctggtaagg cacctgtctg ggcgagaatt 300
 10 tctgacgacg gtgggtgggtgc gagggctcag gtgacggttc cgattcgcgg aagcgggaaa 360
 ggattatctg ctgatgctat tgaggagaga ttggcgggag ttctgttcta cgcgttgagt 420
 aattcgaatg a 431

<210> 139

15 <211> 431

<212> DNA

<213> Arabidopsis thaliana

<400> 139

20 tcgagcggcc gcccgggcag gtcccacttg tcatcctcct ccacaacata tagcttgaaa 60
 ccaaaaccct ctagcgtttt cggctaaagc tttcgctgac tactacaaca atggcgctct 120
 catccctttc ccctgctact cagcttggtt ctagcagaag tgctttgatg gcgatgtcaa 180
 gtgggttggt tgtgaagcca acgaagatga atcatcaaat ggtagaaaaa gagaagattg 240
 gattgagaat tgcttgtcaa gcgtcgagta ttccagcaga cagagttcca gatatggaaa 300
 25 agaggaagac tttgaatctt cttcttcttg gggctctttc tctacctact ggctacatgc 360
 ttgtccctta cgctaccttc tttgttcctc ctggaaccgg aggtggaggt ggtggtacct 420
 cggccgcgac c 431

<210> 140

30 <211> 431

<212> DNA

<213> Arabidopsis thaliana

<220>

35 <221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 140

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 catcagttct ttcagagttt tcttcaagaa aagatgctat tgcttacttg aaacttaagc 120
 tggagcgaag tggcaagttt gttgtggagg gaaagaagat tagtcttgta tcaagcaaga 180
 agtgagcgag aatttttgggt tgggaattatc attatacttg cataggaaaag tggagattag 240
 gacaagtttt gttactaaat catcacaatg ccatatgtaa acaaagatca tacttcagtt 300
 45 tggaaaattt tgatttgatt gtaatctatt tttacattct attagagttt gcataaaaact 360
 tcaccctaata agtttactct cttatatttg gaaccaatat aaagcaaacg catctttatt 420
 ggtggaagac c 431

<210> 141

50 <211> 431

<212> DNA

<213> Arabidopsis thaliana

<400> 141

55 tttggatata aattttttaa agctaaaccg gatatgagat taccggttct tacaaagtca 60
 attacacacc acgaaggttc ttgcaagaca tcatcatttg agatcccat gaaaaaagaa 120
 ggaaggagaa gaaagtacag atgtgggttac acaagtagat atatgatatc tottataatg 180
 gttgtacaaa cacaggtcac aagtttagac caacaaacaa tgtcactgca ccaatcccag 240
 tcagtcagac ccgggttttt tgggatacct ttagtttacc aagacagggt attttggttt 300
 60 ctcaacttca aagcaatctg aaaacaatat tagacaatct cccagtcttc tctcgacatg 360

5 tcgacaaaact cggtaacacc atcctcgaac atcaccgagt gctttcttga atactcatca 420
 aaatgtctaa c 431

<210> 142

<211> 431

10 <212> DNA

<213> Arabidopsis thaliana

<400> 142

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 15 ccaaaactaaa aaactcataa aaagagagcc gtagacgaaa atctcaagct gataaataat 120
 ggcttgctcg tctggtcaca agataaccag acgacttggt atacatataa caacacaaaa 180
 tagcgatgaa atccaacgtg aggattttca agcttcgctg agagcgagga ctccctggaag 240
 tggcttacc tcaagaagct ccaaaactagc accgcctccg gtagagatgt ggctcatctt 300
 gtctgccaaa ccaaccttct cgacggcagc aacagagtca cctcctccaa tgattgtggg 360
 20 tactcccttt ccgcttagtt ctgcaagctg ctttgctacg gcctcagttc cagcagcaaa 420
 cttatcgaat t 431

<210> 143

<211> 431

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

30 <222> (1)...(431)

<223> n = A,T,C or G

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 35 ctataacctt taccaccatg aaacatatan naagtaactt ttaaaccaag aaccaataat 120
 agagaacgca tatccatttg cgtgaaaagt gaaaactagg actcatcacc gatgattttc 180
 gagcaagatg gtgttttctg tgtgtttcag ggcttctcaa ggaaatggtg tgcgacgata 240
 cggcgctgaa tcttaccaga ggcagttttg gggagggttat cagtgatgaa cactctcttt 300
 ggcaccttga aagctgccaa attcttctta caaaacgctt taatgtcctc ttcggttaca 360
 40 gtagttcctt ctcttggaat caccgcacag ttaatctctt ccccatattt ctcacagga 420
 acaccgaatg c 431

<210> 144

<211> 431

45 <212> DNA

<213> Arabidopsis thaliana

<400> 144

gcggccgcat tctacaggtg aaatctctca taagttaaag ctacataaga gtcccaaaac 60
 50 cccctttttt tttaatatgt atctgtatta aaagcacaaa gcggaagcta tcaatagatc 120
 agttttttta caatggaaac taatctctct ctgtgctgcc tcatttctct gctgaatgta 180
 tcaagtttca aagccaagaa aatatctatc tgtgtatgtc ttcactcttc accaacccta 240
 ctcttggtggc ggtgttagaa cccactgttc ttcagactcg ttaccattaa ctacacagc 300
 accatccgta gagtcagcgt ccaccacaac agcctcttct tccacattct gctgtctccc 360
 55 atcactactc tcttcctgac gatcctctc ctctcttctc tctccatctt cccctctctc 420
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<210> 145

<211> 431

60 <212> DNA

5 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(431)

10 <223> n = A,T,C or G

<400> 145

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cctcctaatt cagagacgac aaaacgctat aaacaacatt tttacagttt ggaggaggaa 120
15 ggagaaatga taggtttatt aactgagagt agcagcagtc atatggtggt aaatgtggat 180
gggttgatgc gtccgatacc gatgtctccg gttaatgcgg aggttgagga gatgagatca 240
gagtcgccgg tggttaatga taaggcgta gatatttctg atgatgatca tgatgatgag 300
aatgaaccgc ttattgtttc tggatgaatgt cgtattnnnn ctgatgagtc tcctgttgag 360
aatcttgaga gcccttgatgc ttgcagtggc agcctaaagt atgctcatag aaaatgtgtt 420
20 cagcgttggt g 431

<210> 146

<211> 431

<212> DNA

25 <213> Arabidopsis thaliana

<400> 146

tcttacttca agccatgtat tataccctta gaggggtggtg ttgcgtctgg tttcaaaaca 60
gttgaagaag aggtgtttga gaccgcgtta tatacttgca aaggaaaacg tgcaatccgt 120
30 ttgaagcagg ttccttttgc ccgctcatca ctgaatcatg atgatgtatt tatcttggac 180
accgaggaaa agatctatca gttcaatggt gcaaattcaa acattcagga gagagccaaa 240
gctttggaag tcgttcagta tttaaaagac aagtatcacg aaggaaactg tgatgttgcg 300
attgttgatg acgaaaaatt agatacagaa tcagattctg gtgcattttg ggtcctcttt 360
ggtggttttg ctccaatcgg aaggaaaagt gccaatgatg atgacattgt cccggagtca 420
35 actccaccta a 431

<210> 147

<211> 431

<212> DNA

40 <213> Arabidopsis thaliana

<400> 147

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atacaaatct cgtcttcatg agtcttcttc ttctgtccaaa ttgaattttc tccgcacacg 120
45 agagttgaat ttgtattttc ggctgtttat atggtctccg gtcccttagg gttttaattc 180
ttctgcagat ctctcacgat gagcgttgcg aaatcccaag tatggcagcc atgcaagaag 240
aagaggtcct cctcctgatt caatagagat ctatctatat atatataaga gaccgagata 300
tatatataga gagagagatg gcttctcgaa caacgccttc acgatcgact ccttcacgat 360
caacgccttc tggtagttct tctggtggta ggacacgagt tggttaagtat gagcttggac 420
50 gaactttggg t 431

<210> 148

<211> 431

<212> DNA

55 <213> Arabidopsis thaliana

<400> 148

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tctcttcttc ttgcagtttt ggtttggaag aaagagaacg aagaagacga catctccaga 120
60 gtttttggca ataatctttt aagaaatggg aaagcttttg tgtgattcaa cggcgacatt 180


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5  tcaatctcct tcaccaacgg ttccttggag agaaccttct acagtcgccg tgtctctcga      240
   agatgtagat cttgttgacc aatccgcggc tgctgcggcg gtggacgcgg ttgagaagac      300
   aatggccgcc gcaactacca ccgcttggga tgagggtttt ggattggagg aggcgcaaag      360
   acggcatctg agccggctac acgcgagagg tgtgttgtgg aaacatcctg gtaaagatga      420
   atcctctgct t                                     431

10  <210> 149
    <211> 430
    <212> DNA
    <213> Arabidopsis thaliana

15  <400> 149
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    caagagatcg aaattacaaa gcagaataca aatgtaaaga atatataatc tcgaatgaat      120
    catgtctctt ctttatgggtg tgtatcaatc cactcactca ctatacacta aagaatcttg      180
20  tgaattatca atattcaagc agcagcagca actttctttc cccctgctt gtagtaacca      240
    agataccatc tcacaaactt ctttagacca gtctgcaaat ccgtgcttgg tttgtaccca      300
    aactctctct gtgcogaact gatattagca tgtgtgaagg gcacatcacc attcctcggc      360
    agcttcatca tgttctctt ggcttttact ttcaacaatc tctccaatat actcacaaga      420
    tccgtcaccg                                     430

25  <210> 150
    <211> 430
    <212> DNA
    <213> Arabidopsis thaliana

30  <400> 150
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    acacgaaacg aaacgaaacc agaaagacat gttcctaaat taccaaaca ccccttcgtc      120
    tcttacatac accattttct gatgatcaag aagcaaattc atgaatccgt aagccacaca      180
35  ataataatat taataatcat tcactaatat ataaattaaa agatgaaaaa aaaacgtaaa      240
    aaaaaaaatt gaggttcaga ttttgatttg aggagaggaa taatctctct gatcttcttt      300
    tacaacacat caccaaatca aatccatgtc tctccgacca atctctcttc cgatcggagc      360
    ttttgaacca ccacaagttt ttcaacggtt gagatcgaat ttttaatttt ttaaactttg      420
    accattttcg                                     430

40  <210> 151
    <211> 430
    <212> DNA
    <213> Arabidopsis thaliana

45  <220>
    <221> misc_feature
    <222> (1)...(430)
    <223> n = A,T,C or G

50  <400> 151
    acatactgat tataagccaa ggaacaaaca ataaaaatgg gcaagaaaaa gaaacagaac      60
    aaccacccaa acaactgaga cactaaagct cacatgttta tttctctgta aaatgactct      120
    atcgtgtgaa taagaagact tgatcaaggc tttcataagg tctgaatgtc agaatcattc      180
55  aaacatgaag gcgcaatttt tacgggctga agcataaatc ccgctttcct gcattcttct      240
    tccagaagct tcacctgaga tggaccttca gggcagaaaa ccaccactgc tcctccactt      300
    ccagtgaact ttgaagctgc accaaccctc cttgctactt ccaccatctc tatgttcatt      360
    gctnnnnagc attcatcccc aaacatccgc ctccgaatgt cgaaattaag gttcatgagt      420
    tccccagtt                                     430

60

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5 <210> 152
 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 152
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 aagatgatgc gtcttccttc aacctataca acgtgatttc ttgctgcttg aagtatcggc 180
 gatcctcttc atctaccagt acaagattca gataatactt gacgctgaat ttgttggtga 240
 15 tgttgcatgc cggttggtga agatcatatg gggccagaaa cagtcttaca ggtatcgatt 300
 cacctctaac tggagttcca tccatcaact caaattttgc aagagtttct gtctcgacat 360
 gagtattagc acctgcacct gttgattccc gccgtctgat ctcaagatcc atattcttca 420
 tcttgattct 430

20 <210> 153
 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

25 <220>
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 <222> (1)...(430)
 <223> n = A,T,C or G

30 <400> 153
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 aaagtgtgctg aggaatgtgg gtttacatca ctctccatcc gagttgttga ggagttagtg 120
 acctttagtc cttgccctcc ccttaaacc cagaaaattt caaatgctgg gaagcatctc 180
 tctgctgcag agtttcatc ggtcctgcag agtgccaatg ggaagtctga gaataaggaa 240
 35 cttgttttgc ttgacgcgag gaacctgtac gagacacgga ttggaaaatt cgaatcnna 300
 aatgtggaga cccttgatcc tgaaatcagg caatatagcg atttgccaac ctggattgat 360
 cagaatgccg agaaaatgaa gggcaaaaac gtgctcatgt actgcactgg tggaatcaga 420
 tgtgaaatgg 430

40 <210> 154
 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

45 <220>
 <221> misc_feature
 <222> (1)...(430)
 <223> n = A,T,C or G

50 <400> 154
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 ggcattccaaa tgttatccag tttgttggag ctgtcactca gaatataccg atgatgattg 120
 tagtcgagta taatccgaaa ggagatttaa gtgtatatct ccaaaagaaa ggacgtcttt 180
 ctccatccaa ggcacttaga tttgctcttg atattgccag aggcattgaac tacttccatg 240
 55 aatnnnaacc ngatccaatc attcactgtg atctaaagcc aaagtgtcag aaatattttg 300
 ctggatagag gagggcaatt aaagatctca ggatttggtg tgataagatt gtcgaaaatt 360
 tcacaagaca aggcgaaagt agcaaaccac aaagcacata tagatctctc taattactac 420
 attgcaccag 430

60 <210> 155

5 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 155
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 ggcgagggtg gagatggcaa caccgaccat tactgttggc agagaccgga agaaatgacg 120
 acggaccgga aagcttacag gatagatccg agtaatcccg ggtcggatct tgccggagaa 180
 acagcagccg ccatggccgc cgcacaaatt gttttccgcc gatctaaccg tgtttactct 240
 aggcactact tcaactcacg ctatcagttg tttgatttcg ccgacaaata cagaggaaaa 300
 15 tacgacagca gtatcactgt tgcccagaaa tactaccgat ccgtcagcgg ttacaatgac 360
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 tacttgggtc 430

 <210> 156
 20 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 156
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 tagttcgtca ttgcagtctc ctgacagctt aggtgtagac aatttgttgg ctttagtgcc 120
 agtacaaaca aatgagactg attctggttc ccttgagtca ggaccaggtt ggcattttct 180
 tcgcgggctt tacggtaata atcgaaaaag ctggaccaa gtttctgcta agaaggctgt 240
 acttcagttg gtttcgaggc tgcgaggctg gcattcagaa actgtaatct atctggatag 300
 30 gaaacggagt gactctggtt gtgatgaaga ttgctcttct agtattgatg gtgaagatgt 360
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 aaacaacatt 430

 <210> 157
 35 <211> 430
 <212> DNA
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 <220>
 40 <221> misc_feature
 <222> (1)...(430)
 <223> n = A,T,C or G

 <400> 157
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 tcgttatata ggagaagcgg aggagattcc tttcgtttat tctcttcccc gtttcccttt 180
 taacagagga aaaagaccag ctcctagctt ttccgatatt ggagtagagc caccagatga 240
 gcatattcct gtttggcttc ctgcgtttcc tgaaaccaag atgtctaacg ggtcagagga 300
 50 gattaatgtt gacaaaatag aaagggatgt gcagagtaga gataatggat catctttgat 360
 gagtgtgcag nnntctgtcg atgttgatag gttaaaagtt cagaaatcca tggatcaaaa 420
 ggatgttcag 430

 <210> 158
 55 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 158

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agaataatca gtctccgggt cgggttagac tagatccggc taaaaacggg ttggatcagc 180
aacagcatca gaattacggg tataccacag aggaattgtt agagaaccgg cttgtttcgt 240
tagagtgttt catatttctt tgaaaaagaa gaatatttcg atgggaataa tgtcttctca 300
10 tttgacgttg gattcataat tcgtaaagct acttacttaa ttacgttacc tctgtaattc 360
atttctgtgt tgtatttgct gatttaaagt tataattcgg ttgaatgatg taaaaaaaaa 420
aaaaaaaaa 430

<210> 159
15 <211> 430
<212> DNA
<213> Arabidopsis thaliana

<400> 159
20 gatatttttt ttaaaatttt ttgagaggaa gaaatggaga tttcgcagag agtgaaagct 60
agattagccg ttctcaccgc gcatttggcg gtgtctgata ccgtcggatt ggaacagggtg 120
ttgccggcga tcgcgccatg gtgtacatcg gctcacatta ccgctgcacc tcatggatca 180
ctcaaaggaa acttgacgat cgtc gatgag cgtacgggga agaaatatca ggtccctgtc 240
tcagagcatg gtaccgttaa agccgttgat ctcaagaaga taacgacggg gaaggatgat 300
25 aaggggctga agttgtacga tcctggttac ttgaacacgg ctccggttcg atcttcgatt 360
tgttacatcg acggagatga aggaatctta cgttatcggg gatacccaat tgaagagttg 420
gctgagagca 430

<210> 160
30 <211> 430
<212> DNA
<213> Arabidopsis thaliana

<400> 160
35 ccgcataaac tttaaattca gaaggtgcag ctcaactcta gaatgtgaca aaggtcacao 60
agcaagagtc tgtaaagtgt actcgatttc caaagcctaa catcaagaat ttagctaaga 120
caatgggttt ttcttctaag agtgcgaaaa atggttcata aacattctac aatgtgaaaa 180
agcccaaaga gaggaaggat tttaaaccctt acggttccaa tcacctccat ttttcgctta 240
gttttttctt ctctgaaagg acccatgtga tgtagatggc tgcaacaagt gctacaatcg 300
40 tgatcaggag aagagcgtag ctgaaatcgt cgggttagtg gtctgtaggtc tttgaaggag 360
caagccttgt gtagaagaga tccactccat aggcaaagac gtgtgttgtt gactctagct 420
tggacggagc 430

<210> 161
45 <211> 430
<212> DNA
<213> Arabidopsis thaliana

<220>
50 <221> misc_feature
<222> (1)...(430)
<223> n = A,T,C or G

<400> 161
55 aaagaagaag agagaaacca tgtcttcgcc gagcaagcgt agagaaatgg atttgatgaa 60
actgatgatg agtgactaca aggtggagat gatcaatgat ggcatgcaag agttctttgt 120
cgaattcagt ggacccaag acagtatata tgaggagggt gtgtggaaga taagagttga 180
acttctgatg gcttatecctt ataaatctnc atctgttngt ttcattacca aaatatacca 240
ccctaagtgc gatgaaatgt caggttctgt ttgtctagat gttattaacc agacctggag 300
60 cccgatgttc gacctggtga atgtgttcga gacatttctt ccgcaacttc ttctgtatcc 360

5 gaatccgtca gatccattga atgggtgaage agctgcattg atgatgcgtg atcgctcctac 420
ctatgaacag 430

<210> 162
<211> 430

10 <212> DNA
<213> Arabidopsis thaliana

<400> 162
ttacttcatac cacggtaagg atatcactgg aggatcttac atccaatcct actacgccaa 60
15 agtcgtagcg acccacggat ctgcaaagag tctacctgct tcttgacacct caagtatgaa 120
gcctgatttg tgtttcttcc ctcaatacgt tgctaagacc ttacaaacac cgcttttctgt 180
catcaatgcc gccttcgatt cttggcagat caagaatgta ttggcaccaa cctctgttga 240
taaaagcaaa gcatggaaga cttgtaagct tgatcttaag aagtgtacgg ccgctcagct 300
tcaaaccgtt caaggatata gagaccaagt gttggctgcg ttggcgctg ttcgatccgc 360
20 gacgacgaac ggattgttct tggactcgtg ccatgctcat tgccaagggtg gaagcgctgc 420
cacttggtcc 430

<210> 163
<211> 430

25 <212> DNA
<213> Arabidopsis thaliana

<400> 163
tttttttttt ttagaaaaac aagagattct atttaattaa tcgtcatgtg tgattgtctg 60
30 ctgattccta gtattatggt aaactgaaaa caatttttac ttatttagtt tcctttgagt 120
gcttcacatc gtatactacc tccaccatct cttcattcat tcattgatgt cgcaccgtcg 180
gagataaggg ttgtcgtact caacgtaact ggaccagtac ggtttgact tggcgaatgc 240
taaaccacgc catggcttgt agttcccatt gtaatgcact accgctgcat tctctattgc 300
tgtttggttt agcgctgggt catatcccag ccctagtacg tgccagctcc tatccattgc 360
35 atacgtcagg ttgtaaaatg ttatcagccc cgggtggcaac gatcccaccc acgcgtccgc 420
ggacgcgtgg 430

<210> 164
<211> 430

40 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
45 <222> (1)...(430)
<223> n = A,T,C or G

<400> 164
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50 aaacagttct tagcagagtt ggaaaaggct tcttctggta tagaggcaca ttctgatgaa 120
gcaaacattt ctaacaatat gtcagatagg attgatggcc agattgtcac cgattctgac 180
gaggatgtag acacagagga tgaagggtgag gagaaaatgt ttgatactgc agctttggct 240
gcgcttttga aggcagccac tgggtggtgga agttcagaag gtggcaattt taccataaca 300
tctcaggatg gcacgaagct tttctctatg gatcgacctg ctggtttgag ttcacgttta 360
55 aggnnnttga agcctgcagc agctccacgt gcaaaccgtt ccaacatctt ttccaattct 420
aatgtcacaa 430

<210> 165
<211> 430

60 <212> DNA

5 <213> Arabidopsis thaliana

<400> 165

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tttttttctt tgggcaattg ataatatgtc aaaatctcaa aagaggctgt ttttttttat      60
caagtaaaaa tacacacatt gtgtctatta tggttttact ctttgatcaa atcctgcatg      120
10 tgttgtgcat aacttcttcc cggtggaatg aatattacat cttcccaacc tgaattcttc      180
tcgctcatct ccatttttcc caacacatct tccagactcc caaccataat ttgttgatct      240
cctcttgatg ctctcgtata tttagaaagt tccctctcta tatcttctt actgaaatat      300
acagggcagt aacgtctatt ttttttctc acaacaagaa gctcagactg aaaaaccgga      360
actccatcaa acccattctt atttctgag gatttgagct ctaacgcatt ctttatttg      420
15 attgatctg                                     430
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<210> 166

<211> 430

<212> DNA

20 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(430)

25 <223> n = A,T,C or G

<400> 166

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acctaacatc tccaactctt tttaatgaaa tgtaaaacaa caaacctctg tggtttctgc      120
30 actaaatata atagagaaaa aggtaggcat gggatcgaga atgatgtcag aaatatattt      180
attctgtctt ctctcataac ttgttgatct tactcaaaaa gtctgaagcc gaagcagatt      240
catttcttgt agcagatgca ctgtccttag gtgtcactgt cttagctgct ttgcctttct      300
gcagtgcctg tctttgttga tccattgtg cctanaaatc agaatgatac aaacaaacca      360
aacttgaatg ggtattgggc gttcgacaaa gagggcattc ttgcttctcg ttgcaccatt      420
35 ccataatgca                                     430
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<210> 167

<211> 430

<212> DNA

40 <213> Arabidopsis thaliana

<400> 167

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aatctgacat tttttctcgg gaaatttttt tatccaaatc ggagtaaagt atcgaatcta      60
gagaatccgc tatggatgag acctattttg atctattgaa tttctttaag aatccctctt      120
45 ttacagagac atttgtcgac atcttactat gcgcagttcc gatttggctc gccgttatga      180
tcgggttatt aatcgatgg tcttggcgtc caagatggac cggtttgatc tatttagggg      240
ttcgtttctaa gcttcggttt ttatggaccg caccgcctgg gtttgggtgt cgtcggcttt      300
ggcttgcttt caccgctctc tctgctttct cggtttgccg aaccatctgg tcaagggaatg      360
acaccagagc taataaatcg gcgaccgggt cagcttcgtc gcagacgcct gttgaggata      420
50 atgatgaatc                                     430
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<210> 168

<211> 430

<212> DNA

55 <213> Arabidopsis thaliana

<400> 168

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agatctcttc ttattcaaat tcaattgaga gatactctct tcttcttctt tttctctatc      60
cagttccttc tgtgcgaagt tcttctgatt aatttgagtt tcttgggaagc ttttactcga      120
60 tcttcatcgg atcttagggg tttgtttaaa tccagatctt gggttttgtt aaataatggc      180
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5 gactccttat cctggagcga cgcaggtggg ttcgtacttt gtggggcagt attatcaagt 240
gttgcagcag cagccagatc ttattcatca gttttattct gagcctagta gagctattcg 300
tatcgatggg gattccaccg agactgctaa ttctttgctg catattcata acatgggttat 360
gtcactgaat ttcactgcga ttgaagtga gacgattaat tcagtcgagt cgtgggaagg 420
tggtgttctt 430

10 <210> 169
<211> 429
<212> DNA
<213> Arabidopsis thaliana

15 <400> 169
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ccaaaaaaga ccgtagaatt caacatcaca acacgaaacc acaacacaat aaatggattc 120
catcatctga ttgatttacc attccctggt tttatgtaca catccttcct gcttttgatt 180
20 atctttcttc aatcgcttcc aaagtcgtct tcatctccaa atgagaacac agatgcacat 240
gccgccataa ccttgaactc actctctgag cttgaagaag cattgacccc agcccagag 300
gggttttctg ttgcttcacc cttgtctaca gttactcctt gcaccggctg tgatgatcct 360
ttgtttccag aaatagacac tttctctgtc gcttttagtca gaacagcggg ttcattctgcg 420
ctctttttg 429

25 <210> 170
<211> 429
<212> DNA
<213> Arabidopsis thaliana

30 <400> 170
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atcatgagac agagtttcaa aatccattgg agtagttcgt ttccacgtgg agttgaagca 120
gaggaggtca atgcagttgc attcgtcgcc ttggttttgt tccctcctgc agtaattgtat 180
35 atgcatttgt cataactagg gtccttgttg actttaacac cagctcctcc aaagctgcaa 240
gcaacgtctg ttgctctgtt ctggttgaaa tagctattga acacgaaaga agcatgagaa 300
accaaagtat ctggttgaaa acaaggctgg cttggctgaa tagctgtgca atcaacattt 360
ccaggaccac aagcccaatc caaagcacct ttcagatctc tctctgaagc tttagaagaa 420
gcaatgcac 429

40 <210> 171
<211> 429
<212> DNA
<213> Arabidopsis thaliana

45 <400> 171
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gatctctaag acgtctccaa tattgacaat gaaagcattt gggaggggtt taacaggaac 120
ccattttccca tctttcttga tttggagacc ttcaacgtca ttcacttgca tcagtacagt 180
50 ggtccgacc gaatcagaat gcgggggttag accaataacc tgatctgggt gtgggcatgg 240
tgggtagtaa ttcattctca tactttgaac cgaatcaaca tcatcaaaca acttttccag 300
ttcctctggg ttgatctcta gggctcttgc cattttcgct attaagatct tagctacgct 360
ctgcacttca gaagaatata tctccagtgt atctctaaag ggaagaggta gcttggggaa 420
caagtgagg 429

55 <210> 172
<211> 429
<212> DNA
<213> Arabidopsis thaliana

60

5 <400> 172
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ctagcttgta aaggttacat tagatatgtc cttaaacttt tctttaatcg ctgcctgtat 120
tcccattcca atcgactccg gtccaacata ttttacaacg cagtccctcg cttcaaccga 180
taaaacttca acacttccgc catagtctct gatagctggc ctcagtatat ctagatgagc 240
10 attcactgcc tccacgggta tctgttttac ttcttcatca aaaacttgct gaatatcttt 300
caatgcatct ccaaactttt ccttgagtag cctctctatt cccattgtca tagttggtga 360
agaacttgga cagctggtag atgctccttg gagcttaaga gagactacc cactttcaac 420
ggagacaac 429

15 <210> 173
<211> 429
<212> DNA
<213> Arabidopsis thaliana

20 <220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

25 <400> 173
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ctacgacaac gtgtttggcc aagactctga catcatcac tctattacct tcaatacatt 120
caagggaaaa acatctcccc cctatggatt ggaaacgcaa aagaagtttg tactgaaaga 180
caaaaacggg ggcaaacttg ttgggttcca tggacgcgct ggcaagctc tatatgctct 240
30 tggagcatat tttgctacaa ccacaactcc tgtgactcct gccaaaaaac tatctgcaat 300
tgggtggcgat gaaggaactg catgggacga tgggtgcgtac gatgggtgtca agnnngtgta 360
cgtaggacaa ggccaagatg ggatatcagc cgttaagttt gagtacaaca aaggcgcgga 420
gaatatcgt 429

35 <210> 174
<211> 429
<212> DNA
<213> Arabidopsis thaliana

40 <220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

45 <400> 174
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cctaagagag agctcaagtt tgcattggag tctttctggg atggcaagag cagtgccgat 120
gatttgcaga aggtgtctgc tgatctcagg tctgatatct ggaaacagat gtctgctgct 180
gggattaagt atatcccaag caacaccttt tctcattatg accaggtgct tgacaccacc 240
50 gccatgcttg gtgctgttcc atctagatat ggatttacca gtggtgagat cgtctcgat 300
gtttacttct ccatggctag aggaaatgcc tcnnttccag ctatggagat gaccaagtgg 360
tttgacacca actaccatta catcgtccca gagttggggc ctgaagtga attttcttac 420
gcatctcac 429

55 <210> 175
<211> 429
<212> DNA
<213> Arabidopsis thaliana

60 <400> 175

5 gcgggccgctt agcctccaag agagagagag agagagagat ctgcatatag agaattgatag 60
aaccgtcgat ggagagagag aatggtgctt taacggcggc gacaacaacg acgacggcgg 120
tgactttctcc tcctccgatg gcttcttcac cgcgtaagc tttagttgag agattgaaag 180
attatggaca agaagatatt ttctctcttt gggatgaact ttcaccagac gagaaagatt 240
ttctcgttag agatattgag aatttggatc ttccaagaat agatcggatc attagatggt 300
10 cacttcactc tcaaggttta ccggttgcgg cgattgaacc ggtaccggag aattgggttt 360
cgacagtaga tggtagaaca atggaagata gagagaaatg gtggaaaatg ggattaaaaa 420
ctatctatg 429

<210> 176
15 <211> 429
<212> DNA
<213> Arabidopsis thaliana

<400> 176
20 tcgagcggcc gcccgggcag gtcggagcca cgatctgcat ccagtcaacc tactggcggg 60
tcggtgagtt tgaccacgag aggaagcagt acttcgtggt tgctgggtcca aagccagaag 120
ggttcggaca agattcggtt aagagtttct tcaagatcga gaaatctgga gaggatgctt 180
acaagtttgt gttctgtcct cggacttgcg actctggcaa tccaaaatgc agcgatgtcg 240
gtatattcat agatgaactt ggcgttcgtc gtttggcttt aagcgataag ccgttcttgg 300
25 ttatgttcaa aaaagctaag gtgaccgaag tttcgtccaa gactatgtga gaggacaact 360
ctcgatcttt tactttgact aataataaaa cctatgtttt ttttgataaa aaaaaaacct 420
gccccggcg 429

<210> 177
30 <211> 429
<212> DNA
<213> Arabidopsis thaliana

<220>
35 <221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

<400> 177
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aaggaacaat acacgttgga tgaaaggctc gcgagtcgc gggagataat cgctaagtac 120
cctactcgga ttccagtaat tgctgagaag tattgcaaaa cggatctgcc tgccatcgag 180
aaaaagaagt ttctggttcc aagagatatg tcagttggcc aattcatcta catattgagt 240
gctaggttac atttgtctcc tggtaaagcc ttattcgtgt ttgtcaacaa cactctccct 300
45 caaactgctg ctctgatgga ctcggtctac gaattctaca aagatgatga tggattcggt 360
tacatgtgnt atagcagtga gaaaaccttt gggtgatcca ataagatgt tagtgtctgt 420
gtacctcg 429

<210> 178
50 <211> 429
<212> DNA
<213> Arabidopsis thaliana

<400> 178
55 attagacca catttggttt ctatcaattt gtttgcatat ctgtactatc acacacattt 60
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tgtaaatgta cacatgcaaa gaaaaagagg caaagcaact catatctttt tgatctggga 180
atccagcaaa gcacgaccag tatggcagat ccggtccctt tacctaaact tatccacca 240
tgattaacca ttcaatataa gatgcaaacc tggacctgat ccaggtaacc gagcactgat 300
60 atgagtgttc agctgctaag ccgataataa ctctaacggc tttgactgga ttggggcaag 360

5 gcaaattctac tcgtacttgt atctgtttctc ggactctctc gtttatgtac ctcagaagac 420
atagtctcg 429

<210> 179
<211> 429
10 <212> DNA
<213> Arabidopsis thaliana

<400> 179
15 ccacgcgtcc gatcttttaa agggactctt tttggtgggt ggaagcctaa atctgatctt 60
ccttcactca ttgacaagta catgaacaag gagattatga tcgatgaatt tattacgcat 120
aacctgtcat ttgatgaat caacaaagct tttgttctta tgagagaagg aaaatgtttg 180
cgttgtgttc ttcacatgcc aaagtaatgt ctcggaaaac acatgtcaca gattcaagaa 240
agattaacga gagctctgta tattctacag ctgagttggt gtataaaaaca aaagtgatgg 300
ttttctatag agttatgaga cttttttttt tcttttgggt tgttgtgaag tgatcgttca 360
20 tacattataa agatggattc tcacatgatg aatcaaacga gttcctagaa aaaaaaaaaa 420
aaaaaaaaa 429

<210> 180
<211> 429
25 <212> DNA
<213> Arabidopsis thaliana

<400> 180
30 ccacgcgtcc gaaagaaccg aacacacgct atataccact ggaaccgcaa tgatgatggg 60
aagaaagtgg caacggatga atttgtatta cacaaccagt actggggaaa gaacattcga 120
cggagaaagc ttaagaagca ttatatcagg agtggtgttg gtggctggat cgccacttaa 180
ttcactaagt ctgctcatg ctttgtatca aagtgtgtga ggatattctt ttaactcgga 240
acttattact taatttgatg ttaaactctt tccccgctta agttttcagc aatctggaat 300
atgaagggaa ttatgtattc ttatcagttc tttgatgaag tgaggtctac ttctgggatt 360
35 atggatttgg tgaataatgt attccttaga acggtgttaa ggaattgttt cacatgggtg 420
tgaattgag 429

<210> 181
<211> 429
40 <212> DNA
<213> Arabidopsis thaliana

<400> 181
45 tttttaaatc aatcctttta ggttttcatt gatagtttgc ttaaagctta caacttgagt 60
ttgagaatac ttaaatacaa aggtggagac ttagctaaaa ccctagagac attggacaga 120
tgtcatacat caagttgagt cttctgaatc aagggttgag aaacgattct cgagctttac 180
gttgaactgc tttgccgtac aagaggtcgt tgtctcctta ttgccagctc cacttttgtc 240
attacttgag gaagattcta gactctgttt acttgaaaca gatgaccgtt gcctccactt 300
ctgcttcttg ggcttggttt gtgcgaggcc catctgtttc attttcctct ttgctccatt 360
50 agccgaaacg acaacgtatt gtcgtttgcc agagaaagcc tctgctctta cctgtattgt 420
gttgatact 429

<210> 182
<211> 429
55 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
60 <222> (1)...(429)

5 <223> n = A,T,C or G

<400> 182

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10 tctgattcct cgagttctag atcagcatgg gcttagttcc gagttcctca agattccaga 180
ggctatggta aagaatataa ttcagaggta tacaaggga gccggtgttc gtagtctaga 240
gaggaacttn nctgcttttag ctgctgcagc tgctgtgatg gtggcagagc atgaacaaag 300
tcttccgttg agcaaagatg tgcagaaact tacatctcct ctgcttaatg gtagaatggc 360
cgaaggaggc gaagtggaaa tgggaagttat tccaatgggt gtaaatgatc atgagattgg 420
15 aggcacctt 429

<210> 183

<211> 429

<212> DNA

20 <213> *Arabidopsis thaliana*

<400> 183

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25 agatcctcgt gaagggtcta ttagtaaaga tcctgattat cttgagtttc ttaagggtgat 180
tgcacaacct gttgagaatc ttcctagtgc tgaaatccag ttggaaagaa gagaagctga 240
gcagtctggg gcttcaaaag cggctcccat tgttacacct cttatggaat tcatacgtca 300
aaaacgtgcc actgtgatgg gaccccaggg tttatctgat attcgaagag gaggtagaag 360
aaccagagta gtctctgcaa acaagccgag tccaaggccc tcgaaacgta actctgaaaa 420
30 gaaaaagta 429

<210> 184

<211> 429

<212> DNA

35 <213> *Arabidopsis thaliana*

<400> 184

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tgtttcatgt tcttcgacaa ttcagtagac ttgcgagtag atgaaaacca gtagtttgat 120
40 cggggtcttg ttcataccat ataagtcatt ccaacttgca tcaaagtgtg atgcggaacg 180
cttagggttg ttatccctct cctggagttc ttctcgaaga aagcatacaa gtaatttatt 240
accagcttct tcagaaacca agaatcctta gtagecctta tgcctccatg tccagtaga 300
tacaccacc ctgactcttt cgctttgtgt ataaacgaca attctttttc tagactctgc 360
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45 atgggtcgc 429

<210> 185

<211> 429

<212> DNA

50 <213> *Arabidopsis thaliana*

<400> 185

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ggagcttggt tcttggtcgt acagtgtcag gtgaatagag aagaagaaga tggaaaacac 120
55 agacgagctt gtctccattg agctaccagc tccagcttca tggaagaaac tgttttatcc 180
gaaaagagcc ggtactccga gaaagacgga gattgtgttt gtggctccaa cgggtgaaga 240
gattagctcg cggaagcagt tggagcagta cctgaaggcc catcctggca atcctgtcat 300
ctctgagttt gagtgacaa ctggggaaac tccaaggagg tcttcaagga tcagccaaaa 360
ggttaaggct acaacgccta ctcttgacaa agagccctc ctgaagaaga gacgatcttc 420
60 tctcacgaa 429

5
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 <213> Arabidopsis thaliana

10
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 <222> (1)...(429)
 <223> n = A,T,C or G

15
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 nnnnnnattg ggacccgaag caaacattga actaacttcg cctcctaaca ctcacctctt 120
 caacactcat agaatccaag gtgatcaacg acaaagcttt ctcaagaaca caagggttta 180
 20 tcgtgggatt cacggatata cgactccaaa tttaaaccctt tgacatcttg agagtgtgta 240
 gtcccacgaa tgaccgaaag ggcattccaga gggccttctt tttgttgagc cgcccggccc 300
 accaccagc cgtggtacta ataccacatt gttgcatggc cacttttatg ccattcttgt 360
 ctttcatgac acacctcgcc ccaacactag aggcgatcgt tctttccacc aaaagaggag 420
 atcccaggt 429

25
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 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

30
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 ccatggccgc ctctgtaagg agcttcatcg acgaagggtg ggtagcggc tgacacggga 120
 gtgggcccct ttcttctccg gtggtgtgtg gtgtgggtgga tctatgggtt caatgcgaat 180
 35 tgggtggctct cctcacagca gccatgagat gatgttcctc cttgtctgct ggtcatggac 240
 gctagcggat tggaatggat tctttagggt cgacagcttg tgagctgtag ctccgggtgag 300
 cggcagaagt cggactgtag atcgggtgggt ttcacctctt tgcgacgaga ttaacagtgg 360
 atctttggtc ggatcctaga tggcgagctg cgggtgttcc ttagctggat cttggtggat 420
 gatggctt 428

40
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 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

45
 <220>
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 <222> (1)...(428)
 <223> n = A,T,C or G

50
 <400> 188
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 caaaaattca cacttaagga ttttgttttc atcttgttac cgtagctagc tagtaccata 120
 aaaagtttta ctgattaccc gtaaaactat taatttttct actttgacat gtttagcatt 180
 55 tattccctga caatccgata acattttttg atagatcgta agtgatacgt gtcccttgct 240
 gctgcacatt cccgatgatc gacaacgacg acgacgtcgg agcaaaaagc aannaacgt 300
 tccactatca tccacaggga tcagataatt cttcgccggc aaatcaagcg acttccctcc 360
 cgtgaaatga aacgcaaccg tcggtacttt cacagtggag agagacgaga aatcgtaaca 420
 cgtgtcga 428

60

5 <210> 189
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
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 <222> (1)...(428)
 <223> n = A,T,C or G

15 <400> 189
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 cacacattat agacaaanaa gtaaagcaaa tcacatgtca acgtccaaag cattggaacc 120
 agagacagta tgtgtggttg tcgacccgac acataatccc caacctctta ctgaccggaa 180
 agaaaaataa ctacctgatc caccgacaat tttaactcct ggcaacattc aagcagcgga 240
 20 cggtgcggtc acgtagttag gccggccagc ttcagtaaga gcggtgatga acggttcag 300
 attcacgaga tcgacctctg tgtccacaac ggtaacaggt ttcttgtaat ccaaggattc 360
 gtcgtcgtaa atgtncacc attttttcac taacattttt atatcttccc tctccatggt 420
 cgcttctt 428

25 <210> 190
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 190
 ttttttttcg aagttgcaac gaaaataatt cacagttttt gttcttggtc atacaacaaa 60
 ttacaaaatt gcaatagaaa agagctcaaa aaccaaacaa gaaattattt caagaaacaa 120
 aagatccttc tcatgaggga tgatgattat aatttagtaa gctctggagt tagatttgct 180
 gcaaaccttc ctgatctctc cgacgcgatc ttcaccagtg agaacaccaa cgttgaccag 240
 35 cttagccatc gacacagcaa actgctgtct gaatatctga ggtgattgct ctgcgaaagt 300
 ctttacaagc ggacagtcct tgggtcctta acaagctcct gatcagtcga caaaactccc 360
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 agatcgac 428

40 <210> 191
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

45 <220>
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 <222> (1)...(428)
 <223> n = A,T,C or G

50 <400> 191
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 gaaactgtgt agcatcagaa gccagcaaaa acgcagtcct acgaacagag aatttagaat 120
 ctgaggctct ctttccttca actgccatag agaccagaga tatggaaacc aacaagtaca 180
 tctatagttc taatgatgtc ttacatgaca aagaaattct gaagtagcgg cttgagaggt 240
 55 catatgaaat taagtaacct aagaacgaca catgtttatg ggatccattt tgcatgnnnt 300
 attcgcaatc aagcacagaa caccagtaga ccagctaaat ttcgtaacca agactaagaa 360
 aaactagcaa aataggcaca actcaaaaagt aatcaacact tctaatttct aactagttca 420
 aaacagta 428

60 <210> 192

5 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 192
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 agacatgaat gaaaagagaa gaaagctggt gctgaatcgt gattgagaga aagtagagag 180
 agctacaacg cttacaacaa actactacta gtcagcagtc cagctttgct caacaacatc 240
 acgcactctc ctggtgtact cgcgcttgct ttcgctgtac atccgagcag cttccgagtt 300
 15 tgcaggagaa ttcggttagg ggtcacagag caaggactgg atggaggtaa gtatagcagc 360
 aacatcatag attggactcc actgggtttg tagaatgtcc aagcagatac tcccatctgc 420
 ataaatat 428

 <210> 193
 20 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 193
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 acagtttttt ttaactaaaa ccaaaagaaa tcgaatacca acaccttata gatacaattt 120
 tcatcaacc ctttttggtt tttttctttg tatgtcgttt tctattggtt tatttattgt 180
 tcagattaaa accacactcg aaacaagtac tttgcgtcat gaaagtttat cacgacagat 240
 tctaactcgg taattaatta accgcagagc aaaccctacg gatttcccca ttagctccgg 300
 30 taaccacacc gatattactc attctgacca ttgacctcgc aaactcaacg ttgaagggtgc 360
 ttctaggagc catcaattgt tgcactatgg gtctagtggc tggatcggtc caaaggactt 420
 gatcggat 428

 <210> 194
 35 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <220>
 40 <221> misc_feature
 <222> (1)...(428)
 <223> n = A,T,C or G

 <400> 194
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 cacactacac ataattcata gcagagttta agatacagaa tcagagaatg attcagacaa 120
 ataaggacaa catcaacaac aaaaagaaan naaaaacaga aaaataagcc tttttgcacc 180
 agaactcaaa aagtcgaact tgaacctggc aattgtcaat aacagttgca aaagctgaat 240
 ctcatgtttc ccaaaccaaa ggatttcaat ttgtactact gtataccttt ttcaggcaaa 300
 50 tttgaatcca ccaacgggag cagcgggatt gttcccaaaa ttgaaagcct gttgtgaatt 360
 gtcattcccg ccgtcctgca gaatctgttc ttcctcttct tcagcccaat atctctccaa 420
 tatcttaa 428

 <210> 195
 55 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 195

5 gtcaatttgg tcgagaagaa attgagcgtt gaagatgacg gaggcgatga taagaaataa 60
gccaggaatg gcgagtgtga aggatatgcc gctgcttcag gatggtccgc caccgggtgg 120
gttcgcaccg gtccgatatg cccgccggat atccaatacg ggctcctagt caatggccat 180
gttccttggc gtttctgggt cctttgcttg gggaatgtac caggtcggcc agggaaacaa 240
aatccgcagg gcattgaagg aagagaaata tgctgctcgt agaacaatac ttcccattct 300
10 tcaagcagaa gaagatgaaa ggtttgtgtc tgagtggaaa aagtatctgg aatatgaggc 360
tgatgtaatg aaagatgttc cgggatggaa agttggcgag aatgtgtaca attctggtcg 420
ctggatgc 428

<210> 196
15 <211> 428
<212> DNA
<213> Arabidopsis thaliana

<400> 196
20 tcgagcggcc gcccgggcag gtttttttta tgggtgaaga actttcaaaa taacaatgaa 60
actttaaaat agccataaca taaacaaaac aaaacaaaaa gacgaacaga aaacagaaag 120
tactacagt ataggtttga taatgtaatt agttaattaa ttgctctaata acagaaactt 180
agggttcttg attctgagta taaatgtaat cgggtgtgaag aacaaggctt cgtcttatca 240
aacattcttc ttctccaatt ccgttgcagc tttcttcttc aaccttgtct ctttcaattt 300
25 ccttgacgga gtttctctcg gacaaagcgg tgggtgtcgt cggagtcagc cttgctgcgt 360
agggttagcgt agagcaaaga aggagagcca tgatgaaaaa ggttgtgaac ttaacctcgg 420
ccgcgacc 428

<210> 197
30 <211> 428
<212> DNA
<213> Arabidopsis thaliana

<220>
35 <221> misc_feature
<222> (1)...(428)
<223> n = A,T,C or G

<400> 197
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ctaatacgaa acagattaac cagaaaaatca aagttgtgtt gttagtttat cgtcaaagcc 120
caanaagcaa agagtagtaa actgattatt ttacatatga ttcaacacca annngaagaa 180
gaagaaacaa tacatctcaa agtcgaaaca acttatagaa caagaccggt ttgtatcgag 240
caaaggcttg tccgatcgcc agtccaaaca acaactccggg tccatagcct atcgagctg 300
45 ctttccagtt caatgcgtgt tcttgcttag gtagtctctg ctcttctgtc tgtggtgttg 360
atggtactcc atttcccctt aaacaactct cttgaagagg aagaccacaa agattgatat 420
tcccctca 428

<210> 198
50 <211> 428
<212> DNA
<213> Arabidopsis thaliana

<400> 198
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actgggacca ataccattac actcgagtct atgaagcaac aaacatgcaa caagctcgct 120
tatagcttca caacacttac acttgacgat agaattgtta gtctcttgca cacaaattaa 180
atgaatcaaa tagatccatc gctataggat ctatgcaatt tactcagagt ttgtggggaa 240
gctaattctta tatgtcaaaa gagatgaaca tcttcttatt tttctctttt acttctgttg 300
60 ttgttccgcc attgccttaa gcttttcctc caaaatgtct ttctcaagac cgtacattct 360

5 gttcaaagca tgcattattct caagggtctc gctcagcgtt ctactgtcac ttccgtcaca 420
tctcaaat 428

<210> 199

<211> 428

10 <212> DNA

<213> Arabidopsis thaliana

<400> 199

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15 aagtcacaag tctctatttt ctctccttgt ttcctcagtt atgaagtagt tattctacat 120
ttaataaatc tgtacttgtc gcaataccta caaatgtaca tttgatgcgt gtctcaagat 180
cgagatggaa tgccggtgag ccatgcctga aaagtgcctt ctccagtgcg aattatctat 240
cctctgagca gttaacttcg tgggttcaaaa tcaggacaat aactaaaaca ttttatcccg 300
agacttcata gattcaccaa taatgtgatg gccagctatc agatcagacg cttctctaata 360
20 gttgcgtgga tcgtgggcaa aacaagtctt aacattgaga cgtaagccgt ctggttcctt 420
aaacaaca 428

<210> 200

<211> 428

25 <212> DNA

<213> Arabidopsis thaliana

<400> 200

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30 cagattacca atgccttacc ttgaagatga acttcatcac tcaggctgga actcatgtag 120
ctcttgctat ggtgattctt cttgcgagag acgttatctc atcttgccctt ctcttctgtc 180
tggtcgtatt tacgtgatcg atacgaaaac aaaccgaggg gaaccatctt tgcacaaatt 240
cgtggaccct gcagaggttt tggagaagac ggggttggtt tatccgcacg agcctcattg 300
cttagcttcc ggagacgttc ttgtgtcttg tcttgagacg gaagatggaa acgcagaagg 360
35 cagtgggttt ctcttacttg attccgagtt taacatcaaa ggaagggtggg agaaggatgg 420
aaacagtc 428

<210> 201

<211> 428

40 <212> DNA

<213> Arabidopsis thaliana

<400> 201

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45 ctgtttcttc acaaaaaaac aaaaaaacia tgttgtgtgc atcatcttcg cttgctcttt 120
tgggtccttc ttcttcagct atgggtgacta tggcttcttc accagtgtcc agatttggtg 180
gatttggtca tcatactatt ctccaggtatg ataagtatca acgtcttcgt cgtgggttgtt 240
cttggacttg aattgaaaag aagatccctt ttcttcggaa gaagactgcc tctgcttctg 300
cttaccctct ctttcgcagt cagcatacta aagactcatc aagacccaaa aattacaaag 360
50 aggttactaa gtcagccagg caaatgtttg ctccagagat ctctatccaa tcgaaagaca 420
gtgaaatt 428

<210> 202

<211> 428

55 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

60 <222> (1)...(428)

5 <223> n = A,T,C or G

<400> 202

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	acaacagtgc	tctctataga	tcattttttcc	aatggaaaga	tgaataaactc	tcaccgggaa	120
10	taaaagatgt	tgattttctct	gaacccaaaa	gctattaaaa	aaactccatg	aagtttcctt	180
	ctctaactct	gtagagcggc	ttgagcaatc	tcgagagctt	cttcgactga	agatgcgctt	240
	gcgngtttag	ccttatcgac	aagtggttgg	cttcttgcta	gctttggtag	aagctggaac	300
	tcctcaggcg	atccgctttc	tactagaaca	cctttcaacc	tgccagattc	aatccagaag	360
	gtagcgattt	tcgggtcaaa	gttcccaacc	tccactgttt	ctcccacatt	atctccgaaa	420
15	aactgcca						428

<210> 203

<211> 428

<212> DNA

20 <213> *Arabidopsis thaliana*

<400> 203

	ccagacaact	taccgactga	tacaagcagt	tcttttgtcc	ataacctgaa	gaaatctgtg	60
	aggggaagcgg	ctttattgat	tccttcttca	gcaggctcat	cacgggatag	tcaatccgat	120
25	gagggtcccg	agcattatth	tgtacctctt	tcagcaactg	gcttttcccg	ttttccatca	180
	gaaaccaaag	ccctgcctct	cagagggtcg	agagcactta	cctctctgag	cgagccttcg	240
	tttcttgaac	ccaatgttcc	cgatagcttt	gcaccaagca	agtacagcga	tatacctgac	300
	acgtatgatg	atcttgattc	attcaaagat	tacgataatg	ggaacgggtt	tctgtcgggt	360
	gctggatcaa	acagtgtagc	ttctgatgca	caacaatcat	tttacgatat	tgatgatcaa	420
30	gtatttttc						428

<210> 204

<211> 428

<212> DNA

35 <213> *Arabidopsis thaliana*

<400> 204

	aaccatgaag	actttcttaa	gtgtctttct	taccgaatga	acgacaacac	cgtcgaaccc	60
	aaagtcatat	acacttccaa	agactcttcc	tttttttcca	tattggattc	ttcgatacaa	120
40	aatccaagat	tctcggtttc	cgaacacact	aaaccgggtc	caatcatcac	ttccggttaa	180
	gccagtgaag	ttcaaactgt	gatcagatgc	gcacagctgc	atggaattca	tgtaaggact	240
	cggagcgccg	gtcactgcta	cgaagggtct	tcttacattg	cgtacaacaa	accattcgct	300
	gtcatcgatt	taaggaatct	tcggtctata	tcattagacg	ttgataaccg	gacagggttg	360
	gtccaaaccc	gagcaacggc	tggggaattg	tattatgaga	ttgggaaaac	caccaaattc	420
45	cttgctttt						428

<210> 205

<211> 428

<212> DNA

50 <213> *Arabidopsis thaliana*

<400> 205

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	attatgagag	ctgctgagaa	agacgatcaa	tacgtctctt	tcattccacga	agcttgccgc	120
55	gatgccttcc	gacacctttt	cggtagaaga	atcgctcttg	cttaccagaa	ggaggtaata	180
	tactactaat	tatatttgct	tgagtttcca	tgagattttt	gattatttgt	ttttatttgt	240
	tttggataga	tgaagctact	tggacagatg	ctttactatg	ttcttacgac	aggttcaggg	300
	caacaaactt	taggagagga	atattgtgac	attatacagg	ttgcagggcc	ttatggactc	360
	tctcctacac	cagctagacg	tgctttgttc	atattgtacc	agaccgcagt	tccatatatc	420
60	gcagagag						428

5
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 <213> Arabidopsis thaliana

10
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 gtgtttctcc tgggtgtatat gctgtgaagc cgattgatct tctgttaaaa ggacgaactc 180
 15 atcgaagtag aagatgtgta gtcctgtga aaaggagaat tggatgtatc aaagcgggtg 240
 ctgctccagt tgcaccgcct tcagctgaca gtgcagaaga cagggaacag ttagcagaaa 300
 gctatggatt cagacaaatt ggagaagatc ttcctgagaa tgtcacctta aaagatatca 360
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 tgatatct 428

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 <210> 207
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana

25
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 aagatgaata cagacatcaa tccatcatca tataacaact aaacagaagc agacaagctt 120
 gggacaaaag agaaccaccg aaaccacaaa ctccatttct ccggcaacga aggacattta 180
 30 ggaacccaat gccatgtcct tcttccaaca tgaaaaaaca gaatctcagg ccaattgtaa 240
 caacacacac aaatcatctc cttatgccac agacagtaca catgctcgta gttatggtaa 300
 caaacccaag taaacttctc acaaaacaatg tccggtaatg tttctacttc gatccaactc 360
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 cgcgtgg 427

35
 <210> 208
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana

40
 <400> 208
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 agctctgata taacaatcaa tgagtctccc atttcgaggg aaagagggtc tgtctttgga 180
 45 accggattga ttatcttttt accgcctttt atgtagccta tggcaacttc tctccttagc 240
 caagctcgct ctgaaagctc cgtgaatgaa gggttctcgc cctctttcat atacagttca 300
 atgtccttta cgtatatctc atcaccctct gcgtccaaaa tgccttcca tacctcgttt 360
 aattcgctgt tttcagcaac ttgtgctgtt acaagactca taacttcctc tgctgctatg 420
 aatgtca 427

50
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 <211> 427
 <212> DNA
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55
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 gcttttctgt aaaggggttt cggattcagt gagtgaagga cgttttaaaga aagtcttctc 180
 60 cgagtttgga caagttacca atgtaaaaat catcgcaaac gaaaggactc ggcagtcact 240

5 aggatacggg tatgtctggt tcaacagcaa agaggacgca cagtctggctg tcgaagccat 300
gaacggaaaag ttctttgatg gcaggttcat tcttggttaa tttggtcagc ctggtttgtc 360
ccgtcgccgg agaccacatt ccgatttcct ttttgtaaat aaatgatctt aaccatttac 420
tgtatgt 427

10 <210> 210
<211> 427
<212> DNA
<213> Arabidopsis thaliana

15 <400> 210
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ggaagctagt tctagggcta atgggcgccc cgggctccaa actcgagaaa gctctcggcg 180
accagttccc cgaagggtgaa cgctactttg gattcgagaa tttcggcaac acttgctact 240
20 gtaacagcgt tttgcaggct ctttatttct gtgttccttt ccgtgaacaa ctgctcgaat 300
actataccag taataaaagc gtggccgatg ctgaagagaa tcttatgacc tgcttgccag 360
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ttgtaca 427

25 <210> 211
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30 <400> 211
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gatgaactta accgggtcag acccaataac ccacttgtca cccatcagtt cttccctgag 180
atggattcta acggcggtgg tgttgcttct ggctttctc gggctcactg gtttggtggt 240
35 aagttttgtc agtcggatct agccaccgga tcgtccgcgg gtaaagctac caacgttgcc 300
gctgccgtag tggagccggc acagccgttg aaaaagagtc ggcgtggacc aagatcaaga 360
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tgggact 427

40 <210> 212
<211> 427
<212> DNA
<213> Arabidopsis thaliana

45 <400> 212
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agacagcatg tggctacgct ggatagcaaa aaaacctcgt gaaaagattg tcatcagaaa 180
atctatgggt gagaaatcca agagttttta ccagaaggaa tcttttgagg ggagtagaaa 240
50 agatatcaat gcagctctgg atcgtatttg cgagtttact ggaaccaaga ttatcttctg 300
cgatttaagg gagccattta ttgaaaattt gtataagcca aatgtttctc aatcaagatt 360
ggaaggatta atcgaagccc tagacacgga acttgagacg ctatgtagtg tcataatgga 420
gccattg 427

55 <210> 213
<211> 427
<212> DNA
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60 <400> 213

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 aagaaatctc cgagtaaact acacaactgt cttgggttgtt tgggtccgga agacaatgtg 180
 gcagattatt accagcagca agtagagatg cttgagggct ttactgaaat ggatgaactt 240
 gcagaacgtg gctttgttcc tggaatgtca aaggaagagc aggataattt ggctaaaagc 300
 10 gagacattgg cgattagaat atcaaacatt gcaaacatgc ttctttttgc tgctaaagtc 360
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 gatcttc 427

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 15 <211> 427
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<400> 214
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 ttggaattga gaagtgttgc tgaggttaga ggaaggatta aggttttggg aagaaagaga 180
 tggaaagtta gtgtgatgag ttgtaccatg agactaaatt taaccggtcg gtttattcaa 240
 aatttgttat gtgaatagta gtgagtgaat gatcggtttt atgatccggt ttaagaagat 300
 25 ttatttgttt gttgttgttt ttttgggtgt tttgtgtttt tgcggtattg taattgtaat 360
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 aaaaaaa 427

<210> 215
 30 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana

<400> 215
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 ccttcccatt ttatccatca acgatgaagc aacagcagtg ccaaagacat ttgatgtctc 180
 aacgagagca ctggctgcaa catctgattg gattcccgcg ctacggaata ccgatgtgga 240
 gtaatacaca actgcgttta tcccggctaa ctggtgaaac aagaagagag ccgcacctac 300
 40 gcttacaact ttccagtagc ggctgctgaa tagatcaaac catcctgcct ccggtcaga 360
 agaaccttgg ccagaggctg ataagtcgcy aactagttca accactcttt ctttacctgc 420
 ccgggcy 427

<210> 216
 45 <211> 427
 <212> DNA
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<400> 216
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 ccgcgaagac ccagaaacca aaatcgaaga cccaacaaaa ccacaagtc gaaatctcga 120
 aatccgttga gagtttgttc ctttttttgt ttgctcggag atggaggctt tgccggagga 180
 tgaagagtac agtttcaggg aagtagtgtt gccgtctttg attccggtag tgccggagcc 240
 ggaacttgag agagagagcg gagagaggag aagaggaaga gatgttatcg tagccgttga 300
 55 tcatggtccc aatagcaaac acgcttttga ttgggctctt gttcatttct gtcgtctcgc 360
 cgatactctc catcttgtcc acgcccgtctc aagttcgttc tctcttcaat gtgttaagaa 420
 cgatggt 427

<210> 217
 60 <211> 427

5 <212> DNA
<213> Arabidopsis thaliana

<400> 217
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 tcgcttcaat gtctcaatcc atccctcgcg cttcgagggt tctctctgct ttgggaagtg 180
 ttgaaacgat gattccactt cacagtgcgg ttgcttcagc tcgtctccgg tcaagcatcg 240
 ctgctgattc ctcttggttg agcttgcttt ctgaggact tgcaacgcct ttgtgacccc 300
 ggtctgctgg atcgatataa ggcggaaata atcaatatat tacaatgaat gaacaagaat 360
 15 agtgtttttt ttcttagttc gaactctatc gtcaatgtat tgttgtgtgg ttcacaagga 420
 cttgttg 427

<210> 218
 <211> 427

20 <212> DNA
<213> Arabidopsis thaliana

<400> 218
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 tctgtgttct cttcgattgt gtgttgtagt agacatcaaa gtcgatcact ttttaggggt 180
 tcgattaaaa acgtcgcctt tagaaaccag agttcgaatt cgtcttggtt taggtctaaa 240
 aattcgaatc tttggtttcg tttgaatcag aggaagactc tagttagagc atcgaattgg 300
 agccaagaga aatctcctta cgatactctc gagttggata gaaatgcaga ggaagaacag 360
 30 attaaggtag catacagaag attagccaaa ttctatcatc ctgatgttta tgatggaaag 420
 gggactc 427

<210> 219
 <211> 427

35 <212> DNA
<213> Arabidopsis thaliana

<400> 219
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 cataatcatc atgatgaaca acaacaccat gggtttcaag ggaagataag attggagaat 180
 tgggaagaac aagtgttaag ccaccaacaa gcttccatgg tggctgttga catcaaacaa 240
 gagggtaaca ttaacaacaa caatggctat gtcatatctt ccccgaaact acctcctaac 300
 aaatcttctg ttacaacaac taccacaaca aacctgttat gaatgaatga gaacagatta 360
 45 catcttcttg taatttctct ttacctattt cagttgtaag gatcatttta atgaattaag 420
 tttcttt 427

<210> 220
 <211> 427

50 <212> DNA
<213> Arabidopsis thaliana

<400> 220
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 tcggagaaat cgagaatcaa ttgatgaacg atgagaatca tcaagaggag agttttgtgg 120
 aattggatca gcaatcggtt tcagatttca tagcggatct actcgttgat tatccaacta 180
 gcgattcttg ctccgttgat ttggcggctg ataaagttct aaccgtcgat tctccgcccg 240
 ccgctgatga ttccgggaag gagaattcgg atttggttgt tgagaagaag tctaattgatt 300
 ctggtagcga gattcatgat gatgatgacg aagaaggaga cgatgatgct gtggctaaga 360

5 aacgaagaag gagagtaaga aatagagatg cggcgggttag atcgagagag aggaagaagg 420
aatatgt 427

<210> 221
<211> 427
10 <212> DNA
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<220>
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15 <222> (1)...(427)
<223> n = A,T,C or G

<400> 221
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acacaatttt atacaatata caatttggag ctctgataaa caacaactat aacaaaagtg 180
cccaaataac catgtatata cacacataag cgatacttgt tatcaacttt cgaatttcca 240
atagcaacaga acttgagcaa atctagaaga ttaagagatc ctcccttcacg ttgtaaccca 300
tcttctctag atttggctgc aacgcaaact gaatcatagg cggtggtccg catgcgagtg 360
25 ctagcgattc gccttccaaa ccttcaggga tatgttcctt aagcacagct tcagttcggg 420
cgcgtgg 427

<210> 222
<211> 427
30 <212> DNA
<213> Arabidopsis thaliana

<400> 222
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cccaatagta gtaattcgcc tagacagggc tcgcatcgcc ggattgaagg tacgaacgct 180
caccggcatt tttcttccca gtaaataacc gatcaaacgg tgaccttatt gctagaagca 240
aaccttttagg tgcaccagca cgatcctgat aattaccact agcgttgata atctcatccg 300
gagactgtat cgaccgggta tggatatggag gagttataga aaatgggtctc cgggtccaacc 360
40 gaccgtcttg atcaaaccgt tcaaagtaga aatagttctt ttcagtcctt aggcttcggg 420
ttctgaa 427

<210> 223
<211> 427
45 <212> DNA
<213> Arabidopsis thaliana

<400> 223
50 aaaccaaata tcacaatcca aaaaccctat atcctaacaa caaaccaaga tgggaatcca 60
agctccacgc tggacctaaa gggtttcaat cttctagaac ctctgaaaaa cccggccggc 120
cagacccgga cccggaagac gatccccga tacctcaaga agtggttcgag aggatgatgg 180
ggaggattgt ggtgtctgtg ggaacaccac tgggcttggg agtggcgatc ttgaaagtac 240
tcgaagtttt gaaggataga aacgtctggg acgtgccttt gtgggttcca tacttgacca 300
cactcgtgac ctttgggttcg tcggctcttg ggattgcgta cggaagcttg tccacaaacc 360
55 tggacccggc caagactaac tctctttttg gactcaaaga ggcaaaggag aattgggtag 420
agatgtg 427

<210> 224
<211> 427
60 <212> DNA

5 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(427)

10 <223> n = A,T,C or G

<400> 224

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gtttcgatta aaccaaacgg atcatatgca ccagcattaa caaaaaacaa ccgatatttt 120
15 gagactcaaa accaaaaaag attacgactt tagaagtccc aaaaagtttg cagcttcgaa 180
ccttttcatc aaacactgcc ttggccaaag tcttgaatcc tgtcaccacg aacatttaag 240
ctctccattg cattctccaa tccagaactc atctcagcca acacatgagg atcattgtaa 300
tgttgaacag cttgaacaat gtcctaagt ttcttaaacg gatcaggacc atcaaaaacc 360
tcannnnnca caaaaanccc atcacaacct agctgcatca tcaaagctgc atcagcagga 420
20 gtcgtga 427

<210> 225

<211> 427

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(427)

30 <223> n = A,T,C or G

<400> 225

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ttcagaattt gtcggggaaa tcagcgccgg agttttcatg aaacagagcc aagtcctgat 120
35 aatgggagct aacgcggcca gcgaacaacc tgagaaatcc attgttctaa tcgatttagt 180
accgcttgga gataaattcg ataacatgac tgnaatgctg acttaccaga gattctggag 240
tanannngtc tatatagatg aaccaatctt tggcgggatac gacgtgattt acgtgcgtaa 300
tcctgggtta cccgcttccc cgccaacttc tggatgacc attatagatc aaggaccgta 360
ctctggtaat aataacggaa gggcgggtcaa accgctcgga gttgatgttc caaggaagcc 420
40 gcgcaag 427

<210> 226

<211> 427

<212> DNA

45 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(427)

50 <223> n = A,T,C or G

<400> 226

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55 gagcatgttg tggagagaaa agaggaatct acctcatctg aggattcctc ttccccca 180
gatgaatctc aaaatgatgg tagtgctgaa aaggaggaat cagacgaggt taagaaagt 240
gaggattttg taaccgagaa gaaggaagag ttgtcaaagg aagagttggg gcgnnntgtt 300
gcctctcggt ggacaggaga gaaatctgat aagccaactg aggacagca tatcccaaaa 360
gctgatgatc agggaaaacca tgagcacacg cccatcactg cacatgaagc agatgaagat 420
60 gatggat 427

5

<210> 227
<211> 427
<212> DNA
<213> Arabidopsis thaliana

10

<400> 227
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actgtaaagt taatggccat cccattattc tcttttattt ttatcatgta gaaacaagat 120
acaaaaaagt taaaagactg ttacttttagg tcttgaacct ctgagagatc ttcccaactc 180
catctctaca ctctcagcc attttcttca ccttatcgct cacctgaact gtcccttgct 240
caacatctgc tgcctgcctt ttggccctca caatggctgc atctctcatt tcccagctc 300
gcttccctaa attcactgca tattccttca aaactgtaac ccataaacgt attttctcca 360
tcacagtga gacacttcc cgggactttc cactcacggg tccagccatc tccttcagct 420
tatccat 427

20

<210> 228
<211> 427
<212> DNA
<213> Arabidopsis thaliana

25

<400> 228
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gctgttgctt cctctaccgc ttccgcccgc ttcagaaaga tgcagtttca ccctgcaagg 120
aaacccttca acggtttctc taatgggctg tccgatttta agatcgagac tttgaatcct 180
tgctcctcta accagcgact gttatctgca ccgtccgcta agaaaccgca cagctccgat 240
ttgttggaac atgggttcga acccgatctt acttttagca ttaccttccg caaaatcggg 300
gcggttttgc agaatctcgg gaatacatgt tttcttaatt ccgtattgca atgtttgaca 360
tacactgagc ctttagctgc tactctgcaa accgctgcgc atcagaaata ttgtcatgtt 420
gctggat 427

35

<210> 229
<211> 427
<212> DNA
<213> Arabidopsis thaliana

40

<220>
<221> misc_feature
<222> (1)...(427)
<223> n = A,T,C or G

45

<400> 229
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aatcatctct gtaatcgaat gctgccatat cgaatggtgt cgaatcaaac accanctgga 120
accgattgtt aaccccgctt ttctgcccct gttgcataaa catttgattg ccactgttga 180
aattcagctg ctgattctga gctgcttttg catcaatgac catgcttttg ttttccatca 240
aagtaggagg cgttttggtt ctttgacat ttctgtcgta catggccata agctcgggtga 300
tcattctctg cccgttttcc gnnnctccaa cgcccgatag gtcgatcggg tggactgggt 360
gctgaggaac tactagtttc attccacca tatgaaactt ggatgctcca tacgctaaac 420
gattgtc 427

55

<210> 230
<211> 426
<212> DNA
<213> Arabidopsis thaliana

60

5 <400> 230
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 atggacaaca gctaaaagat gcctctgtgt tctctgaact aatatcgaca aaactcaaaa 120
 gacagaaaaa aaaaaaacat aaacacaact ctagttcgct acttcaaata caacggccca 180
 caatttttct caatttttcta aacatacccc accattttca gaaattacca aaccgcccac 240
 10 gaatcttcac cgtccgtttt cggatcttag atcaaacggc gatcatgaaa gcgagagata 300
 gacctcgcat tgtattgaag tcttcccaat tctaaaccct ggaacaaccg tgaacgcgac 360
 acgtggctca gactccggcg aactctccgc cgccgggaaa aacgcttctt ctgctacact 420
 cttcat 426

15 <210> 231
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

20 <220>
 <221> misc_feature
 <222> (1) ... (426)
 <223> n = A,T,C or G

25 <400> 231
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 tcctaagcct tagacataaa cgcaccatca cacatagcca aatgtcaaca caagaaaacc 120
 agaagagaaa atgaataaca agacactaaa ctcacacaaa cgagaaaaaa aaaggaatca 180
 agaaaaacag agaagctggt gttattgctc ctcttgact tccacttcgt cttcttcata 240
 30 ctcataccct tcttcctcat cagccgttgc gtcttggtac tgttgatact ctgataccaa 300
 atcattcatg ttgctctctg cctctgtgaa ctccatctcg tccattcctt cacctgtgta 360
 ccaatgcaag nnnngcttttc ttctgaacat cgctgtgaac tgttcgctca cagcctaaa 420
 catctc 426

35 <210> 232
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

40 <400> 232
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 cgaagccgct ggaatagaat acgaatgcc tgagcttgta agtttccgat tacacaattc 120
 tatacactac atcttcaaca ttgaactaat aactgcatgt tttgtgtcac tgcttcaggt 180
 tggaaacaca cagccagtc cgaagaggat caagttagt gaagaagact aaaagctgaa 240
 45 gctgaacaac acttttccga taacctttt tgaatagaaa tctggtctgt tgtactcttg 300
 atattggatc aataactaaa ctttaaagtt tgcaatgaaa acttctgttt caatgattca 360
 gattttctgt atagcatcaa gatactttcc cgagacagcg ggtgttagat tctctctggt 420
 gaaacc 426

50 <210> 233
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 233
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 aaaaaacaat tttctgtcta tatatatatt aaggatccaa attagggaga gaccaaagag 120
 gaaattaata acaatcaatc caacaacgaa tggagattga agaagcgagt cgtgaaagtg 180
 gacatgttgt gtgcggatca tggattcgtc gcccgagaa agtaaaactgg gttcttatcg 240
 60 ctaaaagcttc caaacgctgt ggctcatctg tttcttctcc tgctctcctc aacatcttct 300

5 cttttgaccc cattactgct tctctttcct cctctccttt ggcaacacac acgcttaagg 360
 atagtgatgg tgatcctgtg gctgtttcag tgcacctgg tggggattac ttgttttgct 420
 caacct 426

<210> 234
 10 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<400> 234
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 cagctatgca tcaagggtctt aattcttctt cccccaaca ttctacttct tatttttatg 120
 taaacttggtg gaaatttttt caataaataa gaaataataa aattataata gtgtaagagc 180
 tgcagcatac actgtttcaa gatctggtct tgaactttct ttgagctttc aagtcgatca 240
 ctatgattga gatattgtct ttgcttccca tttgaatagc gagtttgagg agatattcag 300
 20 ccgcagcttg acacgcttgg tcttctccta cacctctctc agctaaaggc aatgctccat 360
 tcttcttggtg ccaagccaag atccgcctcc tcgcaaaatc gcaagcttct tggttactca 420
 ttacgt 426

<210> 235
 25 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<400> 235
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 aaagtttctg cgaaagctat ctcgaaagaa cagaagtcac tgacgagaac aggtaagcag 120
 caaattcagt caaaagaaga aacatcatcg accatctcta gtaaattact gaaaactgaa 180
 gaaattatct catccccgag tcaaagtga cctgggactg tacttgctca taagaagcct 240
 cagaaggact ggaaagctta taaccctaaag acaatgagac ctccccctct accagagggg 300
 35 accaaatgtg tgaaagttaa gacttggaa gttaatggac tgagaggatt gttgaagttt 360
 gagagcttct ctgctctgca gcttgcccaa agagaaaatt ttgacatctt gtgcttgagc 420
 gagact 426

<210> 236
 40 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<400> 236
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 cctgttaatt catcaccaat cagagacctc cgaagtagct gcactgcagc tgetgaatca 180
 atggcaagaa gttgagtacc ttgccacacg tccgtggtgg cttctcttag cttttgaaga 240
 gttttctcca tcatgttttc cttcttgagg gtctgaacca actgaacact ttccgttcta 300
 50 ctgcttgatt gaggtgtatc ctgagagatt atttctcct catctactga ctgatcagtg 360
 cttcttttga cccgcttttc gagttctatt agctcgttcc ttagaatttc gaatcggtcg 420
 atctca 426

<210> 237
 55 <211> 426
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<220>
 60 <221> misc_feature

5 <222> (1)...(426)
 <223> n = A,T,C or G

<400> 237
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 tgctttgttc agacgtactc gttgactcga aaggctgtca ctttcaaac gaaatctctg 180
 gttctgagca gctcaaacac acagacgtct ctttctccta agttgttctc tagagtgaat 240
 tcgtaccatc cttgactgaa tttggctctc ccggctttgt agagacatcg aacaggccat 300
 tgtttctccn catnctggac tttgatgaac ccggagatcc cacttaggta cttctcagca 360
 15 aaccacagaag gaagatacat gatgcaacct ctgtatagat aggatggctc cagaaccact 420
 ctgaag 426

<210> 238
 <211> 426
 20 <212> DNA
 <213> Arabidopsis thaliana

<400> 238
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 ggtgttgac aaatccgaat gggcgaaggg acaaagcgtt ctcttcctgc agccttcttc 180
 cgcttctgtc gtctccgca accgtgccac ctccctcacc gtccgtgccg cttcctccta 240
 cgccgatgag cttgttaaga cagcgaaaac tattgcgtct cccggacgtg gaatcttggc 300
 gatggacgag tcgaacgcga cttgcgggaa acgtttggat tcgatagggc tagagaacac 360
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 cctcgg 426

<210> 239
 <211> 426
 35 <212> DNA
 <213> Arabidopsis thaliana

<400> 239
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 atcacctggg ggaggaagat gtgggtggtta aagatctgtc tgaagtgttg tctatgatgc 180
 tgcgtgttaa ctaattgtgc ctatgttccg gtgtgtgtgt actgcaaccg ctgcagctcc 240
 tgctggacca aactgtgatt gtgcctgcaa cagcttagca tcaatggcca tatgtgtgtt 300
 gttgtttaat tgatctgtct tcgggagctg tgggtgaaag taagggtttg ggtggttcat 360
 45 agtctcaacg tctgcttggt tagttgtagc agctggtggc tcagtgggac tgaattggtg 420
 gacagg 426

<210> 240
 <211> 426
 50 <212> DNA
 <213> Arabidopsis thaliana

<400> 240
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 acatcagaca atattacact ttttatcttg gctgcttcaa tgtctccgca tcgttcgttt 120
 taccgggtgaa agaagcttct tagctttcct ctttcaagct tctcgagaag cttatcggcg 180
 cccattactt ccatctccga cagcttcttc agatacccta ttgctccgta cgacaccatc 240
 attttcttac tcttctcgtc tcccgcacac cccaacagcc ccgccacggc gtacttcttc 300
 gccgtgtttc cagggtttga atccaataac atcaccaaat tcgtcagaac gctcttcccg 360

5 tcttttcttca gttcccgtcg aatccttctt tccgctacca atccagcgat cgcctgagcc 420
gcccgt 426

<210> 241
<211> 426
10 <212> DNA
<213> Arabidopsis thaliana

<400> 241
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15 catatagtat aaagccgtaa actctcttca acgaaagcga gagagtgtga ctccattccc 120
tcaaaaccta actttggcta aaatatcttt cttggaagaa aagttattga aactgaacaa 180
acacaaacca cgtagaaaaa tcccgggaata tagaaataat atcttcaagc tcttcacttg 240
gcactaccga gctgggagcg gataagctta gccgcgtcaa ccatggcttt aagtgctggg 300
ttaacctcag tgtacttctt tgtcttcaga ccacagtcag ggttaaccca caagatgttc 360
20 tgctcaagaa ccgcaagcat cttgttgatc ctgtctgcaa tttcatctgt ggatgggtatt 420
ctcggga 426

<210> 242
<211> 426
25 <212> DNA
<213> Arabidopsis thaliana

<400> 242
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30 gccattacaa caaaaacaca taatgtgaga agatagcaag gcaaaaaaac gctcacagaa 120
accaaaaagt ttatatgttt ctttaatggg aaaatcaaag acaaaaaacat aattcttcgc 180
ttctgttttg tggtcgaatc aatggaggtt ttctttttct attgtctcat ggcaatctcc 240
aaggaaaaac ttctattggg aagtaagtaa ggtaggttc ttaacctgac ctcttgaaaa 300
aggtgaaagc catggctata gttgcaatgg ctccaaccac agcagctcca atgtaaagct 360
35 cttctttgtc aagaggctgg aaccatatgg tacacttttt tacttctttc ttgattgggt 420
ctgggt 426

<210> 243
<211> 426
40 <212> DNA
<213> Arabidopsis thaliana

<400> 243
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45 tatttcacaa aacaaaagga atatatacaa cttaaacatt atcacattca cgataagtgc 120
ttaccataaa caaagtgggt caaggatctt gcctctgaaa ccatgtctat taacttgaag 180
aatagatcac ttcaaataat caattaacta tatctacccg gcaacacggt ccttgccaaa 240
ccagtatcgc ccttttctga gctcttatgt ctttcatact caagatcatc agtaggcagc 300
tcataaccgac aaaccgggca agtattcctt atccccaacc aaggtatgat acactctcca 360
50 tgatagaaat gactacaagg aagcctcctt actttctcct ccactaacat ttcactcttg 420
catacc 426

<210> 244
<211> 426
55 <212> DNA
<213> Arabidopsis thaliana

<220>
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60 <222> (1)...(426)

5 <223> n = A,T,C or G

<400> 244
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attgccaaca acaaaaacag aaggctacac aatatcaacg aaacgaagaa gattagagat 120
10 tagtcttctt ctcatgttac atagaggaca ttactttgat tcaactgaaca agcacaagcc 180
ttccactacc aataccttgt ccaaaatcac caccaccacc atcatcatct tcttcttcag 240
cattcttagg cacagtaaca atcaaatac catcaacaca agcaacagta acaagctcag 300
gcctagttagg ttccggtaac ctaaaacgcc acacgtcaag ctctaattcg tctannnaca 360
aaccaagaga agaagaccca tttgtcctca caacgatctt gggtatacca ggatgaatct 420
15 caacca 426

<210> 245

<211> 426

<212> DNA

20 <213> Arabidopsis thaliana

<400> 245
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25 ggtgatgagc tccattccgc cttttctgag caaaacgtac gatatggttg acgatccatt 180
gacggacgac gtggtgtctt ggagcagcgg aaacaacagc ttcgtgggtt ggaacgtgcc 240
tgagttcgcc aaacagtttc taccaaagta tttcaagcac aacaatttct ccagcttcgt 300
cagacagctc aatacttatg gttttagaaa agttgatcca gaccgctggg agtttgcaaa 360
cgagggtttt ttaagaggcc aaaagcaaat actaaagagt attgtccggc gaaaacctgc 420
30 acaagt 426

<210> 246

<211> 426

<212> DNA

35 <213> Arabidopsis thaliana

<400> 246
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40 tccgaagttag acaacgatac caccgattgt aattcagaag agaacagaaa attttgga 180
gaacacgaac aacttctcca ggcgacactg tataggacaa gttcaattga gacaaagata 240
agacaagcaa ctaaggaagc gttgaaagta gtttagatcaa agggtttggt atgtgtctgc 300
cggagaccgg ttaccgacgg ttgtcgtagc tgtttacgcg gcgaagtatc tagcctctc 360
cgagaagctg gctatgattg cgtcatttcc aaatctaagt ggagaagctc tcatgagatc 420
45 cctgca 426

<210> 247

<211> 426

<212> DNA

50 <213> Arabidopsis thaliana

<400> 247
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aacgagcaat cgattgttgg agcagccacg atcgaggcta atacagttta tgggtgactt 120
55 agaggattgg agacatttag ccagtttgtg tgcctttgat tatataacca aatctgtgca 180
aatatataaaa gcaccatggt atattcaaga taaacctaga tttggatacc gcggtctgct 240
gatagataca tcaagacatt atttaccat tgaatgattt aagcaaataa tcgaatccat 300
gtccttttgc aaacttaatg tcctgcattg gcacattgta gacgagcaat catttctctc 360
tgaaactcct acatatccta atttgtggaa aggagcttat tcgagatggg aacgtttatac 420
60 agttga 426

5

<210> 248
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

10

<400> 248
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 cgaagagaaa cagagtctct gctgtcacgg ccatgattgt ggagccactt tctgttggtt 120
 cttcttcagc aattcagatt catcaatggt gggaacaaaa ccctaattcg ttactgttaa 180
 15 tgacggaggc tactggtggt tattcgttgg ctactgatta tacgtctttg ggtttggttg 240
 ttatctctgt tctgtgtctt tggctctctaa tcaaacgctc tgtaaataca aaggttcgaa 300
 ctttactaat tacaaaaccc taaatttcac ttccaattcc caatttcttc gattttgaaa 360
 aagcttgaat gcaatgttga ggattttag atagtggaa agacgtttgt tgtaaatgac 420
 gtcaag 426

20

<210> 249
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

25

<400> 249
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 cgagtcttct gatctcaatt cttagttttt ctctcattat gccgatttct ctctttcttt 180
 30 ttgagcagaa atcggttagat cttttatcgc tgtgtaata tagtactaat ttaataatc 240
 ttgagagtaa ttactccgtt cattgttgaa tcatggagtc cggaggcaaa actaatcgtc 300
 agctgcgtaa agctatttgc gtctcaacag acgagaagat gaagaagaag agatcacctt 360
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 cttcct 426

35

<210> 250
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

40

<400> 250
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 ctccaagagc ttgaccggtt agcccaattg agcttaccgc cgggttttcg gttttatccg 180
 45 actgacgaag agctgatggt tgaatatctc tgtagaaaag ccgcccgtca cgacttctct 240
 ctccagctca tagctgaaat cgatctctac aagtttgatc catgggtttt accaagtaag 300
 gcgttattcg gtgaaaaaga atggtatttt ttcagcccga gggataggaa gtatccaaac 360
 ggggtcaagac ctaatcgggt tgccgggtcg gggtattgga aagccaccgg tacctcggcc 420
 gcgac 425

50

<210> 251
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

55

<400> 251
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 aaaccagct caagtctcct tcatgactaa agagtaccac atctacatga catctgacgg 180
 60 gaggataagc atggctggtc tgagttcgaa gactgtacct caccttgacg acgctatcca 240

5 tgctgttgct accaaagccg tctgagaaac tgaacaccac catgacacca aagcttcata 300
ataaagattt tgttcttttc tttctattat agcatttccg gcagtgacaa gataaatgtc 360
gttactatta ttattgtttc atcccagtat caataaagta cgcaagaaag cttttgtgct 420
caaaa 425

10 <210> 252
<211> 425
<212> DNA
<213> Arabidopsis thaliana

15 <220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

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tatctacttt acagttttag ggctcttgcg tttccaatct ccagctgaca ttttcagcga 120
aatcaagaca acattttttgc caatgtctac tgcaggctgg aaactctggc cattggcaca 180
cttggttaca tacggtgtaa tccctgtaga ccaaaggctt ctttgggtag attgtattga 240
25 actcatatgg gtcactatat tatcaactta ctggaacgaa aaagctgagg cgcaagcatc 300
agaggaaacg aactccagtt ctactcaag caaggattag gtgatatcag catgtngatt 360
ctagattcta tagactctaa caggagggtg atgaagaaca caagcacata tatacttttt 420
ttttg 425

30 <210> 253
<211> 425
<212> DNA
<213> Arabidopsis thaliana

35 <400> 253
ggaaaaaaga agaagaagaa gcagagctgg gtttagtttt ttcacgagaa gcaaagagat 60
caataagtca gtgagctttt ttctcgtttc tgacgatggc gggtgcgccg gcaagagctc 120
gttcagacta tgattacctc atcaagcttc ttctcatcgg cgatagcggg gtggggaaga 180
gttggtttgtt acttcgattc tcagatgata ctttccactac aagtttcatt actaccattg 240
40 gtattgactt caagataaga actgttgaac ttgatgggaa gcgtatcaaa ttgcagattt 300
gggacactgc tgggtcaagaa cgtttcagaa ctatcactac agcgtattac aggggagcga 360
tgggtatatt gcttgtctac gatgtaacgg atgagtcac ttttaacaat attaggaact 420
ggatg 425

45 <210> 254
<211> 425
<212> DNA
<213> Arabidopsis thaliana

50 <400> 254
tttttttttt tttttttttt gtaaaatcca aagtagtaac atcacagtaa atgttgaaat 60
catcaactca ggaagtacaa agccaaaaag aaaaaaagggt tacagattct taaactttta 120
ttgctcagtt aataaaagct gtgagagaga aaatgtagaa gcaaaaactga tgaaacaaca 180
attaaaagct tgaccagaaa gaaacatctg tgcttatgca ctcggaaaac agatggctgc 240
55 gtaaaatatt ccgagctcat agatcaactt cctctgagca aaagaccctt ctggaattcg 300
aacaatgcc tatattctct tggtagttgt cctaatactc caagtagtag tatgagcctg 360
cagacttctg ttccctgtct ttggtcgact ccaatttgtt gattcttggt ctgaaattgg 420
tggga 425

60 <210> 255

5 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

<400> 255
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 accacagcag ggactcgaaa acgcactagc ttgcagcttc tgtctacctt cacctacaag 120
 tcgagattcc aaactttatc tacaaccagg atcttcaaca atgattattc taaatccaaa 180
 aacgagaaga gatgcatgta ggcatagatt gcactataac aaaatgtgga gtctatgtga 240
 ttaatgatgc agctggcagc tcaagtggaa acacgatgac cccacaatgt tcttcaatgg 300
 15 attcactgaa gcttttagat ggtaaaggta aaaagagatt aagagttaac tatgctgggt 360
 taaaacaaag agaaaaagct ttatttcttt acatagcatg ttgctcggt ggtgagaagg 420
 ctgat 425

<210> 256
 20 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 25 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 256
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 agacccaacc acttgagcgt cccgcttctt ctcttgagg gttccaggga cggagatgt 180
 gctgctattg acagagcttc caaccacaag tttattgtct ccgccgtggc cgctgaggct 240
 gacctcgaca cggaggagga cctggagcag accgccaccg ccgtccttga tccgccaag 300
 35 cctaagaaag gaaaagccgc tttggttctc aagagagata gaacaaggct taagagggtt 360
 ttgnaaatcc aaaagctaaa ggaaaccaa aaggagtatg atgtcaacac tgctatctct 420
 ttgct 425

<210> 257
 40 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

<400> 257
 45 tcgagcggcc gcccgggcag gtacttgcac aagagattac agcagcactt cctgagaatt 60
 gttgtatcaa cattagcccg attcctacca cgagggtgta tctatacttt ctctggaaca 120
 aatctgaaaa actcgacttt gaatcatttt ccaccatttt ggtcattact tgaatttctg 180
 aggcttcacg tgaaatatca gcatctcttc ctctaagccg aaacagtga ttttctagtt 240
 ctttatecga gccaaacttg gccagccatc ttggagactc tggcacgaag aataaaccga 300
 50 ttacttgaat gaagcatggt aaagcaccta ataaagccaa cgtcctccaa ttgatgaagt 360
 tcccacaaaa ataaatcatg gcgagtccag cgttttgaag aagctggttt gaaaacgtaa 420
 atgta 425

<210> 258
 55 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

<400> 258

5 gccctttttt tttttttttt ttaaggaaat agtactctta ttaataccat agtcaccgag 60
cttaatttga ctctatcaat accataatca ccaaaagctt gatatgcata aatatatgtg 120
tgcgtaaaac ataaaatgtg tgcgctttat atatgtttca tagttcatgt gtgcgtggaa 180
gagctggatc ataaggaaaa gaagcacaga gcgtgtcgct ctcattctcc aaaaatcttc 240
caaggttgga gttttaatga tgtggaagga ggagaggctg gaagccgtgg ctgagacagg 300
10 cttcccatac tttgtccaaa tccgagagaa gaagggatgt gccacactca tgcgtttccc 360
atccttctaa ggcggtgcaat atgcgggcca ctctagttgc actcatcgcc tttctcggtg 420
accag 425

<210> 259
15 <211> 425
<212> DNA
<213> Arabidopsis thaliana

<400> 259
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caaggcttca gaaaaagaaa aatgatgaac aagttccgga aggggtgggtg caatgtgata 120
agtgtgaagc atggcagcat ataatttgtg ctttgttcaa cagccgaaga aatcatggag 180
aatccaccaa gtacacttgc cctagttgct atatacaaga ggtggaacaa agagaaagaa 240
gaccattacc actaagtgtc gttccggggg caacaagttt accagttact tctcttagca 300
25 agcatctaga ggagcgggta ttcaaaaagt tgaaggagga aagacaagag agggctagac 360
ttcaaggaaa aacttatgag gaggtcccag gagctgaatc acttactgtc agagttgtgg 420
catcg 425

<210> 260
30 <211> 425
<212> DNA
<213> Arabidopsis thaliana

<400> 260
35 agccattatt tgatgtaacg ttacattaaa actgaaaaca cacaaccaa agacttattc 60
aagaacacac taaacacgca tacacgttac gatatgttgt cgtacggaat attagacgac 120
ggaaagaagt aacaaaacac aatagatcga cgattgagtc atgcatgaga atcgattgat 180
ggatcagcaa tttctggtgc agaagcaacg acgacggaat ccacggcaat cacctccggg 240
gaagccttcg ttgtggcaca cgttttcgca gtttgtatcg ctacgcatt tacccttgaa 300
40 tctttggctc tgcgacgcac acgtgctgtc ctcgaccgtg actggaccca tccctgtggc 360
gacgaatatc atcaccaaga aaagaacggc tgagatcaaa cgcatagaga acttcatgtt 420
tggag 425

<210> 261
45 <211> 425
<212> DNA
<213> Arabidopsis thaliana

<400> 261
50 cttttttttt tttttttgac aacaaaatag gactttcacc attatgcac tatttgcata 60
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gtcaagccaa gtacttctcc aacttctcta ctctctctgt gcttccaatg tatagaggaa 180
ccctctgatg tatctcagtc ggttgatgat ctagtactct cgaatgtcca tcagaacctt 240
tccctccagc ttgttcaaca atgaaactca ttgggtgcaca ctcatacaaa agcctaagct 300
55 ttccattttt gctctttgct tcacgagggt acccgtaa atcccgtac aacaaagtcc 360
tgtgaaaatc tccaacaaaa cttccaatgt accttgcgga gtaaggcttc ccagttggac 420
caggg 425

<210> 262
60 <211> 425

5 <212> DNA
 <213> Arabidopsis thaliana

<400> 262

10	tttttttttt	ttttttttccc	caattgcaaa	aacattaact	tcatggaaac	agtagttaca	60
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	caaaatttca	tccagatatg	aatcattttac	agttaaaacc	aaaagatgga	acctttccga	180
	catttgagct	tccatatgct	caagcaagtc	tctgttctcg	actcctgata	gcgtcttcac	240
	tctgttttta	agtttagtgag	aatgagttcc	gctaataat	cgacccatgt	gtcaggaaca	300
	ccgggtaggc	accaatgcat	acagtcttgt	ccccatattg	ccaccgcgtc	ctgcttccct	360
15	aaccagatcg	ctgggtgggc	atctgctctg	aattcgctta	gatgggtcag	atcaagtaac	420
	ttgat						425

<210> 263
 <211> 425
 20 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 25 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 263

30	gtcttttctt	gtttatccca	aagagaacaa	aactgagagg	aaaagagata	acgaacaatg	60
	tctactactg	tctatagcct	atcttttcct	catttggttaa	cattacttta	cgccagatac	120
	agcagcatgt	ggattacata	tatgtatann	nttatagtnn	ttattcatat	cctgtaggct	180
	gtctttgctg	cagttatgct	ttgtgtccat	ttcttctttg	tctctttttg	tctcttcgat	240
	gcaagcatct	ggaacgggtt	aggccctcta	tagctctcct	ctttaatcct	tatcttcttt	300
	ttcttccctc	ggcatatttc	ttcatcccac	tcacccgcta	cataaccaat	gctgcttgcg	360
35	ccttcactct	tngatccctt	cttctgagaa	gctgaaattt	cctcatccca	tttggcaacc	420
	actgt						425

<210> 264
 <211> 425
 40 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 45 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 264

50	tcttacatat	tatgatacat	acattgtcat	agtaattatt	caaacaacat	cgacaatctt	60
	cttggtgtcc	ctaaggatag	tctattaaat	cattccatcg	atttcttgga	agtcattctca	120
	acatcatcgg	aggacttgct	ctcctcaaag	tcttcaatcg	gtaaaccgac	cttgtagcgg	180
	tatccccgag	cacaatacca	aaagtaaacc	agattaacca	cacccaaaac	cgcaatcaga	240
	taatagaagt	aatccaattt	tcccgcgttg	agattcttgt	ttagccaatc	cggacgatca	300
	tgcccaccgg	agaatttatg	aacgacagtc	acaaggaaac	tactaaggta	gctcgaaccg	360
55	gcgaacgata	annngaagag	agaattagcg	atacttctca	tgtgctctgg	aaactgactg	420
	ttgaa						425

<210> 265
 <211> 425
 60 <212> DNA

5 <213> Arabidopsis thaliana

<400> 265

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10	atggaatata	taaattatat	ttacgttggg	gctgaagggt	ataaagaatt	ttgatttgag	180
	aatgtgttgt	tgcttcatat	catctccgtg	gaggatcctg	aatcagggttc	atttcaactc	240
	ccacgggttg	ggattctctg	aaagttccaa	gcttttcagc	ctccctagct	atccgaacat	300
	cggaaggctc	gtaatactcc	actagaaact	tgatggcgaa	tctaggaagc	aatgatgtca	360
	caactattgc	tagcaagcag	aaccagaaca	tccatgtctt	gccacttgg	aaaattgccc	420
15	agtaa						425

<210> 266

<211> 425

<212> DNA

20 <213> Arabidopsis thaliana

<400> 266

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	tatcaaggat	aaccaacgca	gtagaaattc	ttttgtgggt	gatatggata	aaaagcttgc	120
25	agcagagcat	ctcctgcagg	atgtatcaca	ttatcatggg	cctatgatta	gacaaatgaa	180
	acaactggta	gatatctaca	tcaagcttgc	agagcttgaa	acaaggagag	aggataccaa	240
	tagaaaggta	gcactaccaa	gagagattcg	tagtgtgaaa	caactggaac	ttgtacctgt	300
	ggtgactgca	acaattcctg	ttgatcgtag	ctgccaatac	aatgaagggt	cattcccgtt	360
	tttcagaggt	ttatcagatt	ctgttacagt	gatgaatggg	ataaatgctc	caaaagtagt	420
30	tgaat						425

<210> 267

<211> 425

<212> DNA

35 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(425)

40 <223> n = A,T,C or G

<400> 267

	gaaaaaatcg	agtctctacc	tttcaaagat	gatgtcaagg	atgaagattt	tgaatccgat	60
	ttcgaggaag	cacattctac	tgacgaagaa	cttgaggatt	tgtacaattc	tcccaggtat	120
45	gtagctgaaa	agatgaggaa	gaatgagttt	ttcaacatgg	atgataagaa	gtgggatacac	180
	atgattagag	aaggatatcca	acatgggtgt	cttactgata	ctaaagaatg	cgaggagatt	240
	cttgaggata	tgctcaaattg	ggaccagctt	cttcctgatg	acttgaagaa	aaaggttgaa	300
	gcaaagttta	atgagcttgg	agatatgtgt	gaaagaggtg	aaattgaggc	tgaagcagct	360
	tatgagcttt	ttnnngaatt	tgaagatgag	atggtaattc	agtatgggga	tcagatggaa	420
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<211> 425

<212> DNA

55 <213> Arabidopsis thaliana

<400> 268

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60	gctgttggcc	tggtattctt	gctcatgaga	gcaagtctgt	tctcgttggt	gtccataatg	180

5 ctgttaatca ggctcttctg gcaacagcaa ttggactggg aacagaatat tttaggagtt 240
 tggtgcagag caattgtggt gtaagtgtat tggacttcat accaagagct gacggtggat 300
 ctccctcact atgtcttaat cgactaaatc agattcttga gttgggtgta aaatgttaga 360
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 agctg 425

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 <212> DNA
 <213> Arabidopsis thaliana

15 <220>
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 <223> n = A,T,C or G

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 attcagcata atttatacat atacatgtag atacatgtat tgtgtattta tatatatggn 180
 25 nggttttata gtgtaggagg gatccagata tagccgtgag tctgaagata accagctttc 240
 tctagtagct gatcagcttc tttcggctct cggcttccctg gtttgtatgg gattgacttt 300
 acttctcctt tgctgacccg gtggagtagc ggcgtgaaga tctcccacgc aacctttaat 360
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 tatg 424

30 <210> 270
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 <213> Arabidopsis thaliana

35 <400> 270
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 tgggttgata aaggcagttg gctgttaccg gtatcgggtga ttccattctt gggaccttct 180
 40 ttgtatctac tctacgacc agcagtgatc gagacgatag ctcccaaaga tactgcatca 240
 tctgacccaa atcaatagca acatcaactt tctcttttgc tcgatgacaa gactattgtc 300
 cagaagcccc aggaagattt cacaggaccg accatcatat ttctgatgca tgaatgctga 360
 tgataacatt atgaacatga taaaccacca acgtcacaaa cgtattctag aatacaaaac 420
 cttaa 424

45 <210> 271
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 <213> Arabidopsis thaliana

50 <400> 271
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 tgggaggctg ttgatttgca gaagttgatt ttggctcata atgacattga gggttttaaga 180
 55 gaagatctga agaaccttgc ctggttggtt gtgctaaatg tcagtcacaa taaactctct 240
 caacttccag cagctatttg ggagcttact gcgatgaagt ctttggatgt gtcctttaac 300
 tcaatatcag aacttctcga gcaaatttgg tcagcaattt ctcttgatgca gcttgactgt 360
 tcaagcaatc ggcttaaaga attgccagat tctattggga gatgtttaga cttatccgat 420
 ttaa 424

60

5 <210> 272
 <211> 424
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 272
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 ttttgtataa cacaaatggg aaatctgttt ctaaaccatcc ttccatcgct gcagctactt 120
 actcttgttt tgactcatca ttataccaat tccatcaata gcggatcacc ttccgccatc 180
 tccctcacca atttaatgaa atcttgttcg ttcgagatgc tccaaggatg aactgcaggt 240
 15 gcttccgctg aatacaaaact caaagaagag ttttagcgaag ctggttctga cttatatacc 300
 attgagccta gaaccgggtc aaaattctga ggcgaatcca tcgataggaa gaacataggc 360
 acagcaactt tgtaatgcaa atccatatca ccaacgagat taacaagatc tgtaaagtct 420
 gaga 424

20 <210> 273
 <211> 424
 <212> DNA
 <213> Arabidopsis thaliana

25 <400> 273
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 gttgctatct cctcgaattt cgacactatc tcttttgcac ctttcttcgt tgtaaacttc 120
 gattctgatc tctcttcttt ctcaaacaata cccgagagat cgaatccttg agacagcgaa 180
 gagatcaagt caaacgcgtt gtaagacatc gggtttacgg aaaaagctgc gtggacatcg 240
 30 ctgatcagtg agtcgatctg atgactttcg ggagatttag gcgtttcgat cttcttgaaa 300
 cccttttgaa accaggaatt ctccatgatt ttttcaatct tgattcttga attaggggta 360
 ggggtcaagaa tccgagacaa caacttcttg acctcgggag gaaaccaatt cggacatttg 420
 aatt 424

35 <210> 274
 <211> 424
 <212> DNA
 <213> Arabidopsis thaliana

40 <400> 274
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 caatccaata aagtgaaca aggtgttgga aatggagcta cgcagaagta tgttaataag 120
 tataaggaag aatctgataa gtgtattttg gctgttgatt tggctttgaa tgaatctttc 180
 aagaatggga agagaaaagc gaagattggg gctgaatctg agaagaagaa gcgtctcaaa 240
 45 atatggaagg ggaagagagc tgttgaagat agtgacagtg atgatagcga cgacgaggaa 300
 gatgagaaat ctgttgttct aaacaatggg ggtcatgatg gtgattcatc tggtaaattc 360
 tcatgcaata gtggttcaga ggaagagaac gacgctgtaa tgcaccgcag ttccgatgtg 420
 gttta 424

50 <210> 275
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 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 275
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 aattttaagg ctaatcctga ctacaaaggg gtttgccatg ttgcacttgc acaagaaggc 120
 cattgcaggc caggagaggt tttgttagga acagactcac acacttgatc tgctggagca 180
 ttttggtcaat ttgctacagg gattggaaac actgatgcag gttttgtgtt aggcactgga 240
 60 aaaatcctcc ttaagggtcc accaacgatg aggtttatct tggatggtga gatgcctagt 300

5 tatttgcaag caaaggatct gattttacaa attattggtg aaatatctgt tgctggtgca 360
acttacaaaga cgatggagtt cagtgggtaca actatcgaaa gtctgagtat ggaagaaaga 420
atga 424

<210> 276
10 <211> 424
<212> DNA
<213> Arabidopsis thaliana

<400> 276
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gtgaccgtct ctttgaggat cctcttcatt atggcaaaac catgctcaag atttggaact 120
tgaacaagta cactggagtt attggagcat tcaactgtca aggaggagga tgggtgcagag 180
aaaccagacg taaccaatgt ttctctgaat gcgtcaacac gttaaccgcc accacaagcc 240
ctaaagacgt tgaatggaac agtggagca gcccaatctc cattgcaaac gttgaagagt 300
20 ttgctttgtt cttgtctcaa tccaagaagc ttttgtgtgc tggactaaac gatgatcttg 360
agctgacttt ggagcctttc aagtttgagc tgatcactgt ctctcctgtt gtgaccattg 420
aggg 424

<210> 277
25 <211> 424
<212> DNA
<213> Arabidopsis thaliana

<400> 277
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ctcccgttct tcggatcctc ctttagagtt tagtcctcca ttgatcgcca tgggtggtggt 120
tctagccgcc gcttttctat tcgtaactta ctctcgtctc atctcccgcc gttttctttc 180
acctctattc cgtcgtttta gaaggtggcg atgccgtcga cgccgtctcc ttcacttattc 240
ttcagcttcc tctgcttcaa cttcatcctc cgatctccga tcattttcac ctttcccttt 300
35 cgactctttt cattactctt cttactcacc ttacggatta gacgattccg ttatcaaaac 360
tttaccgctg tttctctact ccgccgctgc ttgcaccgga aaaccgcggg tggggaaaaac 420
ctcc 424

<210> 278
40 <211> 424
<212> DNA
<213> Arabidopsis thaliana

<400> 278
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ttaccttagg agtaattcat agaattgttt atatctaaaa aaataacatc tccttccttt 120
atatgatccc ctatagttat atacatacaa ataaatagat tgactggaat ttcagacatc 180
ggcccgacga tgatccattt ttcaaaagag cgcaaatttt tttacgttta cacatgcata 240
agagtttttt ttattttatgt ttgttagaat ctatgtgtta tacaacattc taccaaatgg 300
50 gtcttatcga atcgaagttt ttaaaataaa aaaaaaagg tgatatgatt cgggtctcagc 360
cgatctaaaa aatcttattt ttttgaatat gaagaaataa agaagccatt gcacttgccg 420
gaaa 424

<210> 279
55 <211> 424
<212> DNA
<213> Arabidopsis thaliana

<400> 279

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 ttagtctcat cttatgtcac tcccgtcgac cttttctaca agcgaaatca tgggtccatc 180
 cccattgttg atcaccttca aagctactcc gtcaccctta ctggattgat ccagaaccgc 240
 agaaagctct ttatcaaaga catcagggtcc ctcccaaagt acaatgttac tgctactctt 300
 10 cagtgtgccg gtaacagaag gactgccatg agcaaagtta ggaatgttag aggtgttggg 360
 tgggatgttt ctgctattgg caacgctgtc tgggggtggg cgaaactggc cgatgttctt 420
 gagc 424

<210> 280
 15 <211> 424
 <212> DNA
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<220>
 20 <221> misc_feature
 <222> (1)...(424)
 <223> n = A,T,C or G

<400> 280
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 tcaagtttgg tttcacatac tcgctacatt ggaattgtaa gtgagaacat ttctaatacat 120
 aactcacaat attaacactc actgagctat caaaatcaac gccttggtcg ttcctcagcc 180
 acgttcactt taattgctct gccttccaaa ttctgtccat caagagcagc aatggcaacg 240
 ttaacttcat tctcattcga catttgaaca aacccaaacc cacgtgaacg acctgtctct 300
 30 ctatcagaaa ccactcgggc atcaactact ttcccatgct cgctaaataa tcgttccaaa 360
 cgaccactat ccacatccca tggcagggtc ccaacataga tctaaacgc agcatcatat 420
 acac 424

<210> 281
 35 <211> 424
 <212> DNA
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<220>
 40 <221> misc_feature
 <222> (1)...(424)
 <223> n = A,T,C or G

<400> 281
 45 ctttctcggt ttcaccaccg gactcttttg tatttacctc accatgcctg ccgctgaata 60
 cggcaagctc aaagttccta gaactatctc cgatcttcga ttgctcaaag agaatacttg 120
 gtcttatgca agtgagtacc aagcacgnnt cattttagggt tactgttcga cgtatatctt 180
 tatgcagaca tttatgatac ctggaacgat ctttatgtca ttgcttgctg gagctctttt 240
 cgggtgtggtt agagggtttg ttcttnntgt ccttaatgca actgctggag catgttcttg 300
 50 cttcttctta tcgaaattgg tcggtaggcc attgggttaac tgggttatggc ctgaaaagtt 360
 gaggtttttc caagctgaga ttgcgaaaag aagagatagg ctgctaaact acatgctggt 420
 ctta 424

<210> 282
 55 <211> 424
 <212> DNA
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<400> 282

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 ttcactgggtc taaatgtctg tgtaagattg aagcttcagg tggtagagctc actgagacgt 180
 tgcagaagac tttcccacct gattggagct cgcacatca tcaccatggc ttcttagatc 240
 aagtttctga tggtgactcc gatgaagatg atggtgatgg tgaagatggg gaggacgatg 300
 10 aagatgttaa ctctgtttcg gatttattat caccttaca gtaagaaaaa actgatattg 360
 taacaactta aggaaagagc aatatcagca tatttttgta attttgtttt cttgtgtttt 420
 acgt 424

<210> 283
 15 <211> 424
 <212> DNA
 <213> Arabidopsis thaliana

<400> 283
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 aacagctact gatgtctttg ctgttgaatg gattcatacc ggtattatac actttggaat 120
 gactgtttcc tactatgggt ttgttagcga tgttttgagg ctctctgaaa aataccaaaa 180
 acggtttggg cctttgcgtt actttgttgc tggattcctc aagttcatgt gtttgccgaa 240
 gtatagctat gaagtggaa atcttccggc acaaaaagag gatgcagaag gcaaaattcg 300
 25 acttgaaaag gaagctgtgg atatgcaaga tctctacacg gatgtaatga ggagatcaag 360
 cagagaagga tttcctagag cctccagttt atcaagtatt gactccataa tgacccaag 420
 cgta 424

<210> 284
 30 <211> 424
 <212> DNA
 <213> Arabidopsis thaliana

<400> 284
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 agtcaacact tttgtcggcg gaataattga gaaacacaag atgaagaagg gtaataatct 120
 caatggagag gaaaatgact tcgttgatgt cttgcttggc ttgcaaaagg atgaaaagtt 180
 gtctgattct gacatgattg ctgttctttg ggaaatgata ttagagggga cagatacagt 240
 tgcgattcta gtggaatggg tgcttgcaag aatggttttg catcaagaca tccaagataa 300
 40 actctacaga gagatagctt ctgctacaag taacaatatt agatccttgt ctgattccga 360
 catcccaaaa ctgccgtacc ttcaagctat tgtcaaagaa accctaaggc tccaccccc 420
 tgggt 424

<210> 285
 45 <211> 424
 <212> DNA
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<400> 285
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 acacaaagtt cttctcttgt tcatgtaaag catatgcaga agcagctgat atcagtgata 120
 aaccagcaag aaccagtcga atctgaacat cagaaggaac accagccgtg gcggcccgaga 180
 aaaccgtcgc gccaacgaga aacttcttga ggatttgga actgttgtaa gctcctttgc 240
 aggaagagca tacttggtgta tgctgatcaa atctatctag catctgacgc ttgggttaaga 300
 55 cagtggaaag gagagggttg ttagacgggg tggagccgaa ccattcaggc tgactcttac 360
 catgccgtct gagccagttt ctgaatgcta gaacaaaacg gtctgcctgg gttggagtga 420
 atgt 424

<210> 286
 60 <211> 424

5 <212> DNA
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 gaaaaaaaaa aatcaaatct atgtgatttg gagtttataa aaatcatgaa atcttttctt 120
 tactaaatgt tcttcttcac tcttatttca ttaagcatcc acaatttccc atcaatattg 180
 ttttatactt tatatacttc ttcaagtcaa tctcagtctc atttcgaact tcttcccaac 240
 aagtaacgac agtttagaaa cctccacact tagaaacctc ggatcatcat tgtccgaaac 300
 cgtctttata agagagattc taggactcct caatctctca cttgtcctaa cctcgtacgt 360
 15 tttcacgttc tccacgttct cgaacccaac aaacgtcact ttcccgatgc tccatttcat 420
 tttc 424

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 <211> 424
 20 <212> DNA
 <213> Arabidopsis thaliana

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 ctctaaagtt ttaacccaa ctttgcttta agggaagcaa caggaagctt agaaagaacc 180
 ttctcatcaa acaccatgta atgtttcttc agtccttca acgtcttctc tgccactgga 240
 tctacctgt cctcatgttt ctcatacaac attgggtactg tatgtaaacac cacaaaacag 300
 atgtatacaa gagtcaagaa gttgaaccag tttcccacaa ccgagattat ccacagccca 360
 30 caaaccacca tgagaaattt cttcaagtcc cttcctaggg caatgctcct tagaataaca 420
 aagg 424

<210> 288
 <211> 424
 35 <212> DNA
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<400> 288
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 cggttgctcaa tatatcatcc agcatgggtg tgatgttaat tcagctgata atatacaaca 240
 gacaccattg cattgggcag ctgttaaagg ctccattgat gttgctgacc ttttacttca 300
 acatggagct cgtattgaag ctgttgatgt caatggcttc agggagttat aagttttgca 360
 45 tcaggcttgt tgctgctgtg atcataggct tcagattctt ctgactataa cgcactagat 420
 attg 424

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 <211> 424
 50 <212> DNA
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<220>
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 <223> n = A,T,C or G

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5 atacgaatgg tgccttcctt ctctgtggc ttctattgct gaaactactg taccaaacaa 180
gtccttttggc ctttttgtgt ggaccagaga cctctgataa ttcggttacg ttccgcttaa 240
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10 gaat 424

<210> 290

<211> 424

<212> DNA

15 <213> Arabidopsis thaliana

<400> 290

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20 tcaccaatct atatatatac ttgttgaaga acccacaaga aaagaccctt tctaaaaggt 180
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25 tcca 424

<210> 291

<211> 424

<212> DNA

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<220>

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35 <223> n = A,T,C or G

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40 ttcacaagca aatgagctcg aagcgtgatg aagaaaccat tcccatgagc caatccagtc 180
cttactctcc caaaacnnta aagcatccca gatctctncc cagatcgctt cactatctct 240
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45 gcgg 424

<210> 292

<211> 424

<212> DNA

50 <213> Arabidopsis thaliana

<400> 292

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55 gcgagagata ctctctttct tagaccaaaag acttgcatgt gtgtacccag tgatccagag 180
attcaagtca ctcatcactc tcgaccctta taacgtgacc aagacatgga ttggttcaga 240
catctgcagt tatagaggct tccactgtga caatctcctt cacaacaaaa ccgcagttac 300
tggttgcctc atcgatttca atggctttca gctctctgct ccatccatcg aaggatttat 360
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60 gcct 424

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 <223> n = A,T,C or G

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 gcaatcttct ttctatctcc acttcctctc cctccggagc cgacgaccaa agtctcagct 180
 20 taaccctaga cgttcaccgt atttcaactc tagctaatta ccgcttccaa ttgtttctcg 240
 attccagcaa agacgcgttc tccgacttgc aaacactaat ctcactcgac gataaccgga 300
 gagtcgtnnn ctctgcaaaa aaatcaacta tgcaattcgt cggcgggtgtg gttatactag 360
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 attt 424

25
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30
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 <223> n = A,T,C or G

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 gaaaagtctt ctcatccctc tccgagaaat caagggtggaa tgtaccatac cgaaagacga 180
 40 tggtagacta gcatcattcg ttgggttcag agttcaacac gacaatgcaa gaggtcccat 240
 gaaagggtgga atcagatatc atcctgaggt tgatccggat gaagtgaacg cattgggtca 300
 gctcatgaca tggaaaacag cagtggctaa gattccttac ggaggagcta aaggagggat 360
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45
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 <223> n = A,T,C or G

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 taagacacta gaaacttctt aaatctcaaa agagatcgtg taggtcatgt gactcgatcg 180
 60 gcgagtccga gacggagaga ctccaagatg cgttcgaaca caagcacgtg gcaaggggatg 240

5 cgannnnctc cttgttgetc gtatccatac tcttgagccg actgcttcag caacgctacg 300
aaaacggggg ggttgagcag ctccgcattc accacgaacc gctccatctc gtggcctacg 360
taaacaggca cgtgcccctc gggaacccaa gatttgtgtt tctccttctt ggtgcggcca 420
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tggaattgcc atgggttgaa ttggatcgac ttagggtcgg tgttatcttc agagttatcc 180
gcagctgcac gatgttccga gtactttcca ttgaattggg aaacttccag atcaccccat 240
20 ggtgtagcag tgacttcttc cgttacatcg aaccattttg gagtaaaggc ttggcctttc 300
tcttcgcggg ttctcttttc agctctctgt ctctcttcca tgctgtctct ctcatagcct 360
gatttggaac tgtcgccccat ctcaagtgcg tatctatcag gtcgtaaccg tgaatcagag 420
ggc 423

25 <210> 297
<211> 423
<212> DNA
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30 <400> 297
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aaactaaacg aaaaaacaaa aactcttctt ttgcgggaat cacacaatct tctatgacct 120
gggcttggtg atctcaaggc ataccatttg agtataccca ttgaacactg acttatccag 180
acgacctaaa cggattcggt ggaacaaccg gtgcttgcca tctgctacga ttggtggagt 240
35 cgctcgagca gggtcatacc gcgactgatg ggtaaatgaa ggtcctgcga ccggaggtag 300
ctcccaatag acgtcaagaa ttgattcaac gtagcgactg ttttgaaaat gctgattgta 360
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tgt 423

40 <210> 298
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<212> DNA
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45 <400> 298
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tgtgttggtg gacaattgcg acgtggactc tttgggtggt taggccagcg attaaggctc 180
gggtgtgttt gtgtgcgctg tgtgtatgtg ttaaaaggaa aaggagggtt aaaaaatggg 240
50 ggtttctgtg gttgcttcgg gacagttgcc attcccgta acaacctcca caaccaacgc 300
tgctgtttca ccacaggcac aagactttac actgagaaca tctcacgcaa ccacatcaca 360
cgcaaccaca tctcacgcaa ccacatctca cgcaaccaca tcacacgcaa ccacatctca 420
cgc 423

55 <210> 299
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60 <220>

5 <221> misc_feature
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 <223> n = A,T,C or G

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 cagttgcagc aagagcgagg gataagagtg aaggtgttct ccaatgatct agacaaggca 180
 ctgacgattt tgcagaagaa gatgcaatcg agtggaatgg agaggctgat caaagggact 240
 cagactcatc acattaagaa ttcggagaag aaggttctcg ctaggaagaa tcttgaacgc 300
 15 agaatcaaat ccattgactt tgctcgaaaa ctccaatcaa tcctcatcaa gaaagtcaga 360
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 acc 423

<210> 300
 20 <211> 423
 <212> DNA
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<400> 300
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 acatgaagca ttttgagatc cctcaacggc ggcgagggat gaggaggagg agatgggttc 180
 gaaggtatca agaacggaga tgggtgttatt gaaacacact aagatttttag ccactagatc 240
 ctctagaccg gaccgggtt gagagaggag ttgctgaagc tgagtgggta agtcatggcc 300
 30 ttcaacgagt tgggtcataa ctttaagctt ttttgcttta ttagtatcca tttgttagtt 360
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 cga 423

<210> 301
 35 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana

<400> 301
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 cgaaaacaag agatgagaga tgcagacaaa catctttaca tgtctgtgta atgctgtttt 180
 taagacgaca cagcgatata tatattgcgg agacatgaga tatgtgaaaa cctgtaaaagc 240
 taagatcaat gcattggatg cctcgggtgat ctcggacgaa caggcgtctt tgaaggactc 300
 45 acccttatag gtaaagaacc aagaacaact ccactgcagt tgagagcagc tattgcgctt 360
 tccgccatta cgaactctac aaaagcaata cgagtcgagt gttgataatc tccaagcagc 420
 ctc 423

<210> 302
 50 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana

<400> 302
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 taagaagagt cattcctcat tgtgacaagc tactttctaa gaggtctca gactcagaga 180
 gctgctttct tcacctogaa aaaatttgag cgttctctgt ttgctgcatc aatgtcttct 240
 tgtgatgcca cggccactgc aacgccttta tctaacag agtctattgc ctctgcgaat 300
 60 tccttgaagt ccttcaaact tgtagataat atctcttcac gccttatttg cctctcttcg 360

5 tcggttacat taagtaaattg cctcaacaaa ctggtataac ctttggcatc agggagtttg 420
tat 423

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10 <212> DNA
<213> Arabidopsis thaliana

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15 ctacgcgtctg ggatacaacc tcccactgtt ataattggaag taatggagat atagcatgtg 120
atgggtatca caaatacaag gaagatgtta agttgatggc agaaatgggc ttagaatcat 180
tcagattctc tatctcctgg tcaagactta tacctaattg aagaggacgc attaacccaa 240
aaggtttatt gttttacaag aatctcatca aagagctacg aagccatgga atcgaacctc 300
acgttacact ttaccactac gatcttcctc agtctcttga agatgagtat ggaggatgga 360
20 tcaaccacaa aatcatagaa gacttttacag cttttgcaga tgtatgcttc agagagtttg 420
ggg 423

<210> 304
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25 <212> DNA
<213> Arabidopsis thaliana

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aacaattcaa gtaaaaacaa aacaggtatt gcattctaa aaagataaca agaggaaaaa 180
accaaagaag agaaggcggg ttagcaggca gctgatgatc cggtttactc tcaatcatcc 240
tgtcaaacaa agtatgtttc tttttactga ctacacgtg acacgattat tccagtgtatg 300
acttacaatt caaactcgtc ttcaagcttc agagcctcag cagcagcctc ttcttcctca 360
35 tctgtaacaa caaagtaagg gttatgcacc tctggcctga acttgtagcc agtaaacaga 420
tag 423

<210> 305
<211> 423
40 <212> DNA
<213> Arabidopsis thaliana

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aaatgaagct tacggaggcg aagtttgagt tggaggataa atacgccgcc gtggagcggc 180
tgaagaagga gctccggcgg gttttggatg gtgaagaagg aaaaggggtc tggagattc 240
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agtccattga gttgaacatg gagagtggta gtaaatgggg ttatgttgat agcctgaaag 360
50 atcgtcggag atttgatggc tccggcggcg atgatgatga tgatgatccg gtggagaaga 420
gat 423

<210> 306
<211> 423
55 <212> DNA
<213> Arabidopsis thaliana

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5 actaacatca accccaagtg tcatagatta gatataaaat tcagtgaccg gcaccggccg 180
 atggatttgt tagcaactca agtgacttct tgagatgttc tacagcagtc gagacttcat 240
 caaaagccaa agtccccaca gcgaatctag cagccttgag tgccctctgca accttctcag 300
 gccctggctg gtagctgcta tcgtaatggt acttctgagc tgaactcggg gcaggatcta 360
 gcacgggagc aatattgata cgcccgtttg atgagtaagg tggaggagga ggagcagagg 420
10 aga 423

 <210> 307
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15 <213> Arabidopsis thaliana

 <400> 307
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20 ttaccaagaa accataacca aataaccgag gtaaatacaa gttctgacct gatcggtttg 180
 gtttacgaga gtgaaccgag tttacttact tacttcctgg agacataagc aaagtattgt 240
 gccatgggaa ctacaaaggc aattacaagt aatcctccaa cgacaagact gaactgtcct 300
 cgcttctcat cggtttcttc tttcgtcttg aaatttgatt ctctcttgct atcctttacg 360
 gttggacccc cgggatctgg ttgaccgtct atagctgcaa ccaacctttt cgcactgcta 420
25 tat 423

 <210> 308
 <211> 423
 <212> DNA
30 <213> Arabidopsis thaliana

 <400> 308
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 ttgccatata caattattct tcatgacctt tcccaataaa agagagtaat aattacagag 120
35 agatctaata tttatcctat atgagaaaaa gtacctgtgt gtgtttcaca gtttcatcat 180
 acatcatcat gctcagagt ttttggtgcg gtcatatgta gataggttta atatcatttg 240
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 cacatggggt gcagaacaaa tggtagcact tcgtaatcac cacctctttt gggcgatcgt 360
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40 tgg 423

 <210> 309
 <211> 423
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45 <213> Arabidopsis thaliana

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50 cgtcaccacc accaccaccg tttctgcaac aatctcttga atagaagaat tagtgttcct 180
 cgaagctccg ctattagtga cgggtggtgc tctacaata ctctagtctc cgaggcggtg 240
 aggttttttg ttccacaagc aaactttgat tcttcaaagc ttaaagttaga gttcttagga 300
 gagttattgg agaacaagag taacggagga attattacgc cgcgactta tattctttcg 360
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55 cta 423

 <210> 310
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60 <213> Arabidopsis thaliana

5

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agacaacaac aaaatgtgta accttggtat ctgccttatg aagcaaggaa ggatcgatga 180
10 ggccaaagag actttacgac gtgtgaaacc cgcggttggt gatggcccta gaggcgtgga 240
ttcacatcta aaagcttacg agagagcgca acagatgctg aatgatcttg gatctgagat 300
gatgagaaga ggaggagatg ataaggttga acaaagaagg ctctttgatg caatctttgg 360
atcttcctct atatggcaac ctcagccttg tagtgagcag actgtgaagg ctaaaccaaa 420
gcc 423

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<223> n = A,T,C or G

25

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gggttgggaa gaaggagaag gacttggtta agataagcaa ggtatcaaag gttatgtgag 180
30 agttacgaac aaacaagata catctggtgt tggctctgat aagcctaate catgggcatt 240
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gactagcaag aatgatgatg atnnagataa ggaagatgaa agtgaagatg atgctnnnaa 360
atctgagcct gccaaagtga agaccgttgc taaagtcact cgtccacaag gaaggtataa 420
acg 423

35

<210> 312
<211> 423
<212> DNA
<213> Arabidopsis thaliana

40

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45 aatagcactg aggagacaga atcatcgctg tcttcttcgt ctgtagattg cgttggaatg 240
ggatcagacg tggaatgcgt caataacggg gaagatgagg agaatcggag ctctggaatc 300
ttgagcggcg gtgaaggaac gtttcttgaa tggacggttc tgatttcacc cttctttttc 360
tggggaacgg cgatggtggc gatgaaggaa gtgttgccca ttactggtcc tttcttcgtg 420
gcc 423

50

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<211> 422
<212> DNA
<213> Arabidopsis thaliana

55

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ttgagaacct cataacacaa actttacaca tctgttatag aagcaagcca gcaatgtggt 180
60 atctttgggc tcccatcatt cctcaccatc ttctcctctc tcacgtcatc cgtcttcttc 240

5 tccctcttcg tcaccatcat catctccatc aaaatcctct tcatcagcat cattgttgaa 300
gtagggtgaga gggttggacc agagatcttc cttgataata tcagcaacct catcatgaat 360
ctcatcccca gcatcttcct tatgttgagc atcagtaaag caagtaaaga aactctcctc 420
tg 422

10 <210> 314
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<212> DNA
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<223> n = A,T,C or G

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gcggttggtt catcgccatt attgtgctag cttctgttat cctcgccgtc gtttacctg 180
ttaaattgag aacgaagaaa tccggtgacg atgacggtgg cgggtccggt cctggacctc 240
25 ccggcgccat tgataagaaa tacgccgacg ctcttaagct cgctttgcag ttcttcgata 300
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ta 422

30 <210> 315
<211> 422
<212> DNA
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35 <400> 315
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aaagccactc caaatgaaat ctctgtggatc aacgtcttcg ccaattccat tccttctttc 120
aagaaacgtg cagagagcga tatcactggt ccagatgctc ctgctagagc tgaaaaatct 180
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40 ccaccagatg gcattcttct atgccgactt cgtgagcaag tactcagaga gttaggattt 300
agggacatat tcaagaaagt taaggatgag gagaatgcaa aggctatatc actatttcct 360
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ag 422

45 <210> 316
<211> 422
<212> DNA
<213> Arabidopsis thaliana

50 <400> 316
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ggagactatg ttgccgggca aatatcagac ttggctgaga agctcgagca agcggagagt 120
cagctcgcta actcccggtg tggaggaatt gcgccagccg gtcaccaaag gaggaaagag 180
gatgagcctc aactcgcgaa gataactcgg gatagtgcaa agataactgt cgagcaggtc 240
55 catggactaa tgtcacaggt tatcaaagac atcttgttca attccgctcg tcagtccaag 300
aagtctgctg acgactcatc agatccagag cccatgatta catcgtgaag ttggtctatt 360
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ca 422

60 <210> 317

5 <211> 422
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<220>
 10 <221> misc_feature
 <222> (1)...(422)
 <223> n = A,T,C or G

<400> 317
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 ttacacataa caaaaacgta ccnnnatgat gacaagagcc ccagcaatta cacacatgaa 180
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 20 gttcggggca ttcgaagccc aaaaccgggc cgataacttt ctgggcgtaa ttagccacct 360
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 gg 422

<210> 318
 25 <211> 422
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 30 <221> misc_feature
 <222> (1)...(422)
 <223> n = A,T,C or G

<400> 318
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 tcatcttttag tgaacacat tgggtggcttt atcctgaaaa cgttcccatg aagtcctcct 240
 tttccgacga gaatgccaaag ttctctaagt tgctcaaaca agacagatgt ttcagccttg 300
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 ga 422

<210> 319
 45 <211> 422
 <212> DNA
 <213> Arabidopsis thaliana

<400> 319
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 caattgtatg ggagagacaa aagccaaaga tcaaatagata aaaagcaatt taagagaggt 180
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 55 ggtccatctc caaaagcatc ccagtcactt tggctgcaga ctctgcctca acctgctcca 360
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 ga 422

<210> 320
 60 <211> 422

5 <212> DNA
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<400> 320
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gtcgacatat gtgtatgtgt agcggatgtg ctaaggattt gaggtttcag acaaatcgat 180
gccccatttg caggcaacct gttgaaaggc ttttgagat aaaagttcac ggtaacaacg 240
gaagcgggaa taacaccgga cagggagaaa cagttgaaca agagtagcta aacacggccg 300
agtatggatt gaaatgccat cgaaatatta gtagtatatg catgtttgat ccttgtatgt 360
15 taacaacaaa atgtgtgatt gtcaattcat aatatagaga ttacgaaaaa aaaaaaaaaa 420
ag 422

<210> 321
<211> 422
20 <212> DNA
<213> Arabidopsis thaliana

<400> 321
25 ccacgcgtcc gattttatgc tagaatggaa tgcatacagga atgttctca tcttctcaat 60
ggtctccgcc agttcgatcg tatttatata ctttttggtg cctgagacaa aaggccgac 120
acttgaagaa atacaagcac tgctcaacaa ctctgtgcaa taatatcatt tttcttttc 180
tttttggtgta aatgatcata tatataagtc gattgttgtt atttgggtg agtttgaatg 240
tgatccgtgt gcgtatcaaa ttttggtg gaaatttgaa acagtaaaaa tttgtatatt 300
cctcgtttgg gaaaaatgta tgtttggtt agttatatgc aaaaatgttg ttgaagaagt 360
30 ttatacataa aaagttaaat acaaaaagat ggtaagaaaa caaaaaaaaa aaaaaaaaaa 420
aa 422

<210> 322
<211> 422
35 <212> DNA
<213> Arabidopsis thaliana

<400> 322
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cccaaaatct ttgaaatttg caaagataaa gaaggaagct ttcatacaatt cattctcctg 180
acaagctcgt tgatgaaatt ctccctgttt ccagcatcac caccttcgac gtagtggttt 240
ctcttcttct taaggccacc gagtgggtgc ttcaattgga atggccacag gaagtgtgtg 300
gcttctctga agtgaggtcc aacagtcag atctcgtgga tgagatcctc aacgcagatg 360
45 atcccatgct ttccgagagc ctgatccaca atggagtgt cagtaagtgc tcggacgcgt 420
gg 422

<210> 323
<211> 422
50 <212> DNA
<213> Arabidopsis thaliana

<400> 323
55 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt ttttggttggt gtgtggtgt gtagtatcat cctcttcttg 120
atcttgaacg acgtttccgt caattcctgc tggaaaacca aacatattga aagaatggcg 180
gctgctgttt cctctggatg atcctccttt gcttagagac cggcctagag acgattttct 240
cagactagat tgtttgaatg attcaattga tgacatcttt tgctcctccg ctgcattctc 300
atcagatttc ttctcttctt gtagacgaat cagctgagaa taagctcctt ccgggtcctt 360

5 tagtagttcc gtgtgagaac ctttctcgac gatcttgcct tgggtggatca cagcgcggac 420
gc 422

<210> 324
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10 <212> DNA
<213> Arabidopsis thaliana

<220>
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15 <222> (1)...(422)
<223> n = A,T,C or G

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tgtgttaaaa ctttaagagt actactaaag actaaaatcc ctaattactg caatatgatc 180
ataataagga ttgnnnacaa aactaaagag tacttaatta tacaaaattgt ttataactaa 240
gcctcgtggg tcctcaagca aatcgtcaaa ctttaatgct ttctagaaca acacttcctg 300
accctctagt gacatgttat tgatgatcat atcgtggcct tgctcatcaa agagccattt 360
25 ctcgaacaaa gaaagagagc cttgtgtaat tagaccatta atgtcatggt ctattagttt 420
ag 422

<210> 325
<211> 422
30 <212> DNA
<213> Arabidopsis thaliana

<220>
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35 <222> (1)...(422)
<223> n = A,T,C or G

<400> 325
40 gageggccgc cttttttttt tttttttttt ttttttaagt agcaaagatt ttatatctnn 60
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ctaattgcaa cgagccggag ttcttgtggt tgttatacag taacgcggtt ataaactata 180
caaaacttatg catacagccc cataaagatg tggaatgaca aaaagaagaa attatcttct 240
gttttttgtt ctacacaaaa aatatacata gcaagtgagt ttgtccatgt tcatatgact 300
gagaaacact gaatcggatt ttgtccacaa atctcacgct cttcttggtt ctccctcctt 360
45 cttcttcccc ttttatttcc aagggaactt gaatgtgtct ttccaccatc cttgtttaga 420
gc 422

<210> 326
<211> 422
50 <212> DNA
<213> Arabidopsis thaliana

<400> 326
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ctatcggaag caacatgtta agatcttgga atgtcctaac cgcaaacaca agctgcactc 180
tcttgggaga tttgagtcgg tttttgctcg ctagttcttt caaaatgctt agaaatggtg 240
tgatcccaat tcctcccgcc acaagaaaca gattatcata cctgagaaaa tctaccgagg 300
caggtccata aggaccttcc actcttacga ttatgttggt aatcttattt tcacaatttg 360

5 ccgcttcttc tattttgtta taaacagaat ttgtccaatc tccctcacat ttcatacataa 420
ta 422

<210> 327
<211> 422
10 <212> DNA
<213> Arabidopsis thaliana

<400> 327
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caaacacatt tatttatctc atgaaacaac aaaccccaac ctaatcatat actacactaa 120
gaatcctctc taacaagcat tcaatagcaa caagtgggta ctacaaaatt acccttacac 180
aatagagttt acaactacat tcaactagaga aacttgtgtg aaagggttaa cactttttac 240
cgcggttatt actatgatcg ttgttttcga cttttcgcag tattctccgg tgtattagcc 300
ctaaagatgc tgacttcaat tcatggacat tctccaactt tctccgtag agcaaccttg 360
20 agttgatctt gcgtgaaaaa ctgattcccc attttcacag tcgcttggtg gatcataaga 420
tc 422

<210> 328
<211> 422
25 <212> DNA
<213> Arabidopsis thaliana

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30 gcggccgcgg tatggagaac ttacagcgg tttggcttaa accaaagatg cttgagagtt 60
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gaaatttttag catgctggct gaggcaagat ccaaaccat caacctaca gatgatatca 180
caccacgtat cgtgccttat ccgttgcaaa tgctcaagac tcatgggagg actttcttta 240
catggttttg acccatacca acaatcacca taatggatcc tgagcaaadc aaagaagtgt 300
tcaacaaagt ttatgatttc cagaaggcac atacgtttcc tctgggcaga ttaatagcgg 360
35 ctggactcgt tagttatgat ggtgataaat ggacaaaaca ccgaagaatc atcaaccggg 420
ct 422

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<211> 422
40 <212> DNA
<213> Arabidopsis thaliana

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atttcataat tgggtatactt tggtcatcac agaagaaatc cattggatca acatttggtt 180
taactctcac caatctatcg aaattgttct tgaaataact cactcccaa acctttgctt 240
cctcgtactt tgtcttcata ttcaaccaa gatacattcc caaatcaatg tctctaaaat 300
taacataagc tcttcgtgga gattttgaaa cataaggagt cataaattcg tatacactct 360
50 cgacccatct caaatacttt tcagtattag tcttgttctt atcttcttct tcaactcaat 420
aa 422

<210> 330
<211> 422
55 <212> DNA
<213> Arabidopsis thaliana

<400> 330
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catccaattc aaatcccttt ctctctcccg tegtgtctct ccaccgctc gctcttctc 120

5 cggcgtctcc ggcctcttta tccctaaatc cgggtaccaga tccgccgcta aagctgcttc 180
 gggtcttctt ttcggcgctca acgcagcgat cgggttacttg ctgatgcttg cagctatgtc 240
 tttcaacgga ggtgttttca tcgcgattgt cgtcggatta accgccggat acgctgtttt 300
 tagatctgat gacggcggtg ctgataccgc cacgggatgat ccatgtccat gtgcttgata 360
 atgattgata ataaaatcaa aatcgggaaa atctcaaaaa aggtgtgttt gataattgat 420
 10 gt 422

<210> 331
 <211> 422
 <212> DNA
 15 <213> Arabidopsis thaliana

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 atctttccgt tcttatcagc ctgcgacttc cgatgacgat catcgtcgcc gggctacaac 120
 20 aattgctcct ccaccgaaag catccgacgc gcttcctctt ccgttatatc tcacaaacgc 180
 cgttttcttc acgctcttct tctccgtcgc gtattacctc ctccaccggg ggcgtgacaa 240
 gatccgttac aatacgcttc ttcacgtcgt cactatcaca gaactcggcg ccattattgc 300
 tctcatcgct tcgtttatct atctcctagg gttttttggg attgactttg ttcagtcatt 360
 tatctcacgt gcctctgggt atgcttggga tctcgcgat gcgatcgatg atgatgacca 420
 25 cc 422

<210> 332
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 <212> DNA
 30 <213> Arabidopsis thaliana

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 35 ggattcgtat gccaatcatt tgcgcagctc gagtttttca attgaccaga gagttagggtc 180
 acaagtccga tgggtcaaacc atagagtggc ttctccgtca agctgagcct tctatcatag 240
 ccgccactgg aactggcact actccggcga gtttctccac tgcttctctc tccacttctt 300
 ctccggtttac tctcgggaaa cgtgtcgtca gagcggagga aggagaatcc ggcggcggag 360
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 40 ct 422

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 45 <213> Arabidopsis thaliana

<400> 333
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 gagacagaaa gaccttgaag attctgcatt cccaaggtac aatgtgtatg cggagaatgt 120
 50 aaagtctact gatctaagac cgaggaaggt tctagagaag ccgagaagcg aaacagtgtt 180
 tctcggagtc gctcacgtac catcctatta catagcagaa ctggtggtag aatcagacgt 240
 gaaaggagtc cgcttttgtt tcaagcctgt gctaaagatg gttcatgggg caagctggat 300
 ttttatttat tttacaccat cataatcgct tcatattgatt tatttttggt tggtcggtaa 360
 tctctttcat aattgattta tgggtacttt tctactgatt cagctacgat tcacttatca 420
 55 tg 422

<210> 334
 <211> 422
 <212> DNA
 60 <213> Arabidopsis thaliana

5
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 <223> n = A,T,C or G

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 cggatcact acttcaacag aagagcttct tcttctctt cttcttttga ctataacgac 120
 gnttttgtct ctctcctcc ttccatggat catcctcaga accatctaag gattttatcc 180
 15 gaagctcttg gacccatcat gcgtcgtggc tcgtcctttg gggtcgtgg tgagatcatg 240
 ggaaaattga gtgcacaaga agtcatggat gctaaggctt tagctgcttc aaagagtcac 300
 agtgaagctg agagaagaag acgagagaga atcaacactc atcttgctaa gctgcgtagt 360
 atattaccaa acacaaccaa aacggacaaa gcttctttgc tagcggaagt gatccaacac 420
 at 422

20
 <210> 335
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

25
 <220>
 <221> misc_feature
 <222> (1)...(421)
 <223> n = A,T,C or G

30
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 tttagaatgg ttatctcctg aatcnaacca cattttgccc aacaaaatct gattcacatg 120
 tctgcaacgg accagagata agcctctatt tccgttgctt tctctcatt ggtctcttta 180
 35 atcagatcct tctcagttcc gttactacgg tcgaccccat cccagtgtct acccggttta 240
 atcccatacc ggtttgatgc agcttccaac cgtctcgtca accaactatg tttaggcaca 300
 ctttggtgta taatgaaccc agattttttc atctcctcat cgtctcctag atccacaaga 360
 gttgtctcgt actttctttt cttgaccaa tgagccattg gatctccaaa tctaactctt 420
 t 421

40
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 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

45
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 acatgaaaaa tatatttaaa atataagacg tttcagacat tcgaattcag gacaaattgt 120
 ttaataagtt ggacagaaga aacatcacct tgatttaaaa aaaaatactt tgaagaaaag 180
 50 atgaacatta ccatcatcat catcagtaag tttatagaca gagagatctc tgtgtttcat 240
 tgactttctc tttctgctgg tttctgctgc ctaacttggg cgaagtaagc gtgcgccatg 300
 gcttcttttg cagttaatct gtcttgatga tcataccgaa gttagctgtc gaggaaatca 360
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 c 421

55
 <210> 337
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

60

5 <400> 337
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 tcttctacct agacagacca taccagtgat gcaacaagaa aacagaccaa acaatacata 120
 aatagtttat tctggaatta gtgagcctta tgagaatctg ggttttgctg agttgttggc 180
 tactcgcacg gcggcttggt gcattttaca agtttacaaa gtaagtgata aaaagggacg 240
 10 aaccttgaca atgttataag ctgtcatttg gtttcttgtc atttgagcaa gactccaggt 300
 atgagatcac aaggctcagct gctttgcaac ctgatgctat tgatttccca acagagagcc 360
 cccctcgatg attacctgca tagaagaacc caggtagatc attctccatc ttgtcaattg 420
 c 421

15 <210> 338
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

20 <220>
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 <222> (1)...(421)
 <223> n = A,T,C or G

25 <400> 338
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 agaaactcaa catcggtggc gcaaaggcac aaggtcatgc ggagaagacg atggcaagga 180
 ccaaaaaaga gaagaagttg gcccaagagc gagagaagtc taaggaggcg caggccaaag 240
 30 ctgacctcca tcaatccaag gctgagcatg ctgcgagcgc tcaggttcac ggccaccatc 300
 ttcccggtca ctccacntan nctacccgag ccaccggagc taattaccgc cggggacaga 360
 tctaaaacta gctctatagc tatattaaga ttagccgcct tgtttaacaa tatgatatgt 420
 a 421

35 <210> 339
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

40 <400> 339
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 ttctctcatc tagtcatctt cctcttctct tcatccgtta acgcttggtg tcgatgtctt 120
 caccgttcta aagcagctta tttctctctt gcctctgctc tctcttctgg agcttgtgct 180
 tatggctcta tggctacgag tttcttcgcc ggacatatcg ctgcagctat cccttctatc 240
 45 tacaagacg gtgctggctg tggagcttgc tttcaagtca gatgcaagaa ccctaagctg 300
 tgtagcacta aaggaacctat tgtgatgatc acagacttaa acaagagtaa ccaaaccgat 360
 cttgtcctta gtagcagagc ttttagagct atggctaaac ctattgttgg tgctgacaaa 420
 g 421

50 <210> 340
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 340
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 aatctctttt ttagtttcag accctaaatc ctaggttttg aagttttgtt tcttttagtaa 120
 ttttgtcagg ttttgtgtct ggtgttggga tttttcggag cttggtttct tgaaccagct 180
 ccattttcta aaaattcctt ctttaaattc ccattgttgt aagtcttaaa gaaaaagaa 240
 60 gatgacttgt tgtttctctt gtttgaatcc tcgaaccaag gacataagag tcgacattga 300

5 taacgctcga tgcaactctc gttaccaaac cgattcatca gttcatggaa gtgatacaac 360
 aggaacagag tcgatttcgg gtatcttagt aaatggtaaa gtgaatagtc cgatacctgg 420
 t 421

<210> 341
 10 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

<400> 341

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 attttttttt aattgaattc acaaagggtg gcagaaagaa aatagtttgt tttttttttc 120
 tcaacaattg agtttgtttt ctttctaccg aaaagaaata ttcaataatg ttaaggtttt 180
 gaattgagtt tgatcatata aggttgagac catattgtaa aataataaca gatgacttca 240
 tgcccctgta agccgcaacg cctcagcgaa taactccttg agagaagcgt ttgaagccgc 300
 20 gatcctctgc gatgttatgt ccaaactctt accggatgga tcaaagatga gtccaccagc 360
 ttctttcacg ataacaattc ctgctgcaat gtcccatgga ccaccgaaac cgagctcgta 420
 g 421

<210> 342
 25 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

<400> 342

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 aaacagttgg aaaaggctca aagcgatgtg gcacagaaa actgggacta cctgagtaac 180
 attgttggtg tccaagagag aaaactccct tacatcgtct cccgatgccc caaaatcctg 240
 actttacgcc tcgatgagag actcatcccc atggtcgagt gcctctccag tcttgggaagg 300
 35 aatcctcgtg aagttgcttc cgccattacc aaatttcttc caatactctc tcatagcgtg 360
 gaggagaaac tctgtcccct tcttgctttc tttcaagcgt tgggtgtgcc tgagactcaa 420
 c 421

<210> 343
 40 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

<400> 343

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 aatgagttcc tgagctcctc atccaaagga tcctgtccta gtaaataatt aacaatctga 180
 gtagttttct tcttcatcaa agaatcccta aatcatactt tgtaattctt gtggcataat 240
 ttcagaaagt agaaagttag atcgaagtaa aaagaagcta ataaataaag caagcattta 300
 50 gggatcagat ctttcaaaaa aggggcctat tcaactctta tcttcttttt gctcaccatc 360
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 g 421

<210> 344
 55 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

<400> 344

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ttcagaagca ttctttgtaa tggatgtcac agacgaggag aaggactcca aagtgttctt 180
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10 agaaaagtca tcaaagctag ctttcgcatc aggaagtgag actgaactat ccggagatat 360
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a 421

<210> 345
15 <211> 421
<212> DNA
<213> Arabidopsis thaliana

<400> 345
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gtaatgaaat atctaaaatg tttgcccac agagtaagat aatgatcggt gtttgagat 180
cacatggcca ttggttcagg accagcagcg ttcagaatgt ctaagagtga gttttggggc 240
tccaattctt cgtgccaaag ctgcaactta tctccagggt aaaagtttct cgtcactccc 300
25 tctgagttga ttatgacagt ccgtacgaca ccaccactgg ctccatcacg ggcgatggct 360
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g 421

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30 <211> 421
<212> DNA
<213> Arabidopsis thaliana

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tcccaccact ttggtcttct ctccagctaa ccattccata ctactgttc ctacctcctt 180
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40 tgcaaatacg tagccgtttg gggatagcaa gacattcgac atggttgatc aaataagagg 360
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a 421

<210> 347
45 <211> 421
<212> DNA
<213> Arabidopsis thaliana

<400> 347
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ttgacgcctc cagctccacc aggagcagct cggacatatt cttcctcaac atagagggtta 180
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tattcaggtg caggacctaa accaagaatt ggaccacttc ccatcaacaa aggcctaattg 300
55 taaaaagtcc ctttccccaa cgcttggttg caagagcggg ttgtttaatt gcattaacaa 360
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c 421

<210> 348
60 <211> 421

5 <212> DNA
 <213> Arabidopsis thaliana

<400> 348

10	ctttttttttt	ttttttttttt	taagaataaaa	gtagttacga	aatcgaattc	cactacaaaa	60
	attaaaaaag	aattcgatga	caaaaagaact	ctctctcttt	gttcggttaca	gcaaaaacaag	120
	aagattctca	ttctctgttt	ttgattatac	aaaaaaaaaa	aaaaacatgt	ttgaaaatcc	180
	atgtcaagct	cgagatctct	ccccctttcc	acgttttgag	tatcgaggtt	tatcttcaact	240
	cacatcacta	accaccaccg	gtggtgatcg	cgcgtacctt	gacgggttcc	tcttgaaatg	300
	cctatcttca	tcactagatt	cataatctgc	tacttctatt	tccttccgac	tactgtgtcg	360
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	g						421

<210> 349

<211> 421

20 <212> DNA
 <213> Arabidopsis thaliana

<400> 349

25	tcgagcggcc	gcccgggcag	gtcgcattctc	attgcttcat	cattacccaaa	tcattcaactt	60
	aatcgtttct	ctcaaattta	gggttttctc	ttttctcgaa	agtcttgccg	ttttctgaat	120
	catctctatc	tggtttgagg	gtttcgtttg	atatctggag	aaaggggttt	ctggaaacaa	180
	ggagttcata	attcgcgac	ttgatctatc	gatcttcatt	tatatataaa	agcgtgaatg	240
	agattatgat	ggagtcgaaa	ggtggtaaaa	agaagtccag	cagtagtagt	tccttatttt	300
	acgaagctcc	cctcgggtac	agcattgaag	acgttcgtcc	aaacgggtgga	atcaagaaat	360
30	tcaaattcttc	tgtctactca	aactgctcca	agaggccatc	ctgagtacct	cggccgcgac	420
	c						421

<210> 350

<211> 421

35 <212> DNA
 <213> Arabidopsis thaliana

<400> 350

40	gagaattaag	atcttccttt	tcaccacaaa	agtaacaaag	agtgggtggc	catttttttta	60
	tgtacactga	cttctacaat	ctttgttgca	ttgtttattc	agaacccta	actcctacac	120
	aggtaaaactg	taaggagaga	tgagcttata	ggttttgggtg	tgagcagagg	cagtctactc	180
	ggcgaagag	tgttcattca	attgctcggt	tggaagcggc	tcaaccttct	cggccttccc	240
	gtctttcttt	gggattatca	gaccgtaacc	tccttctttt	ctcttgatca	ctatgtttat	300
	ctcaccagtt	tcttcatttt	ggaagccata	gaagtctgta	ctgactagtt	ccagctgctc	360
45	gactgcctca	gcgacagtca	atggtggcat	ctcgaaagtc	ttggtacgga	caatctcctt	420
	g						421

<210> 351

<211> 421

50 <212> DNA
 <213> Arabidopsis thaliana

<220>

<221> misc_feature

55 <222> (1)...(421)

<223> n = A,T,C or G

<400> 351

60	gcggccgctt	acaacagact	tcaaaccccc	caaaaaaaga	ccctaacaaa	agtctcagat	60
	tatcacaagt	ttaatttctt	ctctccataa	agatgaaatt	tnnnntttct	ctgcaagact	120

5 gcaaactcaa acttctcagc ttatttagta tttgtctctc ttaatagttc tatctctttt 180
gaccgttcgg tcgtcaccgt gaagcctcat atacatggta ctgaggatct ttcaccagc 240
cgcttctcca tgtttgacc gttataccca aatgttcaga agacttttaa gtttggtgaa 300
agcaaagtat gttctttgtt ggaaatggaa agttgagaga tcttcaatgg cagagtgcct 360
ccccgtatgc taccattgtt ttgaagctat ctgggaaatc atcgcgaaatc tttgtgtgta 420
10 c 421

<210> 352
<211> 421
<212> DNA
15 <213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(421)
20 <223> n = A,T,C or G

<400> 352
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ccttcaccag atggagaaat tcaaccccc acaacttctt ttccgtctct ccaagctata 120
25 cggcccgatt ttcacgatga aaatcggtag cgtgcgctc gcggtgatct cctcggccga 180
gctagccaag gagtactca aaactcaaga cctcaacttc accgctcgtc ctctcttgaa 240
agggcaacaa accatgtcgt atcaaggccg tgagcttggt ttcggacagt acaccgcgta 300
ctaccgtgag atgaggaaga tgtgtatggg gaacctcttc agcccgaacc gtgtcgcang 360
30 tttcagaccg gttagagaag aagagtgtca acggatgatg gacaagatct ataaagccgc 420
t 421

<210> 353
<211> 421
<212> DNA
35 <213> Arabidopsis thaliana

<400> 353
caagaaacta accgaatccg ctctgaaaaa atcacccgtg aatctgaaga agaccctttt 60
cacgctagtc gcgagtatcg tgtgtaggct cgcgttcggg gtgaatatcc acaagtgcga 120
40 gttcgtagac gaggacaacg ttgctgatct agttaacaag tttgagatgc tagtcgctgg 180
tggtgccttc actgatttct tccctggagt gggttggctt gtagaccgaa tctcaggtca 240
gaacaagaca ctaaacaatg ttttctcaga acttgacact ttcttccaaa acgtgctcga 300
tgatcatatt aagcctggaa gacaagtatc tgagaaccct gacgtcgtag atgtgatgct 360
45 tgatctaatt aagaagcaag agaaagatgg agaattcttc aaactcacia cagatcatct 420
c 421

<210> 354
<211> 421
<212> DNA
50 <213> Arabidopsis thaliana

<400> 354
aagctgaaga agaagttgaa gaactgaacg gatacgaagg tgacgatgga gaagaagatg 60
acgatggaga agacgatgac accgagtcga aatctcaaac gcgcgaaagc ggatccagtg 120
55 tagacagaat caaggcggaa tcgctattcc gtcggatgag agctgctcct gtgccggtgc 180
gtgttcacga cgtgattatc agtggaaacg agaagactaa ggaccatata attgaagcgg 240
aagtggatgc tgtgagagag gcgaccacgt tgcaagagct tctcgaagca tctaggggtg 300
ccaattcgaa tctccgtgag ttagatatct ttgattccgt caacattacg cttgattctg 360
60 gtcctcctga gcttcctggg actaccaatg tggtaatcga agtcgtcgag agcaaaaacc 420
c 421

5
 <210> 355
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

10
 <220>
 <221> misc_feature
 <222> (1)...(421)
 <223> n = A,T,C or G

15
 <400> 355
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 attctgagct tttcctctgg ccttctaatt attaaagtct tcctttttat ctattgttaa 120
 gggttggtt cggtgtctct tcctcttacc tctgcttttt gggttcagagt atttgaattt 180
 20 tggggaatat taaaaattgc ctgatactga aatcaatctc ttgctgtcta gtgatggcta 240
 ctgaagagaa gcctcttaat tctcttgatt taagccatga tgattcttcn nctgcttcaa 300
 atcaggctga aggatcatct gctataactg aagacacttc tgcgaatgtt caacaatgga 360
 ggcgaaagaa tctctcttta cagataccct ctagagcagc tggctctctt cctgaagatt 420
 c 421

25
 <210> 356
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

30
 <400> 356
 tttcctttgc ctaattcccc taagtcacgc tctcttgaac gggttcctgcc attaatgtcg 60
 aactcttctt aaaccttttt tgttcacatt tccttctctt tctcttcttc cgtctctctc 120
 tgaaaaaccc taattgactc gttgcgattg aaatggatcc ttgtccattc atccgtctta 180
 35 caatcggaag cctagctttg aaagtccgt tagcggcgaa gacaacgagc tccgtcgtgc 240
 atccgtcgtc ttctccttgt ttttgtaaaa tcaaactcaa aaacttcccg ccgcaaaccg 300
 ccgcaatccc gtacattcct ttggagacga ctcagtttcc ggagatccaa accctagccg 360
 ccacgtttca tctcagcagc tccgatattc aacgcttagc ttccagatct atatttactt 420
 c 421

40
 <210> 357
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

45
 <220>
 <221> misc_feature
 <222> (1)...(421)
 <223> n = A,T,C or G

50
 <400> 357
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 ggccaagccc ttatcttgaa gggattctca attatagttc ctcagggaga attcaatcga 120
 gtaaactctt cgcagaagtt ccctggtttt caatttatca ccataccaga ttctgaactc 180
 55 gaggcaaatg gaccagtcgg gtctctaaca cagctcaaca aaattatgga ggcaagcttc 240
 aaggactgta taaggcagtt gttgaaacaa caaggcaatg atattgcatg tatcatctac 300
 gacgagttca tgtatttttg tggagccgta gctgnagnag tgaagcttcc caatttcac 360
 ttnnntactc aaactgctac acataaagtt tgctgcaatg ttttaagcaa acttaatgcc 420
 a 421

60

5 <210> 358
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 358
 tttttttttt ttagattatc atgatttcat ttcattcattt cggttatttg acttgcagtt 60
 tggaatcgat tttgtttcat ttcaaggaca aaaacatata caaataactga tacaggagaa 120
 aagtatctct ctacaagtca gtgaacaaaa agaataataat aggacacaat catcgctctc 180
 tgatttctca aaaagctgaa ttggccacgt ctaaggagga gacatcatct cttctcagaa 240
 15 gctgatactt agttaatcag agagaagtaa atctccctct ctttcattcc ataaggcggc 300
 attttgctct ggaaaagcat ctcgagatcg cttttctagg gtccagcttg aaatggaaag 360
 ccaccattca tctgtcgcct cacatgctct ggtattagcc tgttgataag ctccggtgaa 420

20 <210> 359
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

25 <400> 359
 tcgagcggcc gcccgggcag gtgggtatat tcgtcattga aacaaacatg agtcgataaa 60
 attgacagag tcacagattc tattttttcc tctctctctg ctctttgttg atctgtctgt 120
 gtgggattct tccttttagt cctctgttga tctatccaat cgaatcttac gaaaattttc 180
 gagtgaagat gaggtcgtt caagcaccgg ttgtttgccc tagtggtcgt ccagacaaat 240
 30 tgggtgtctc tgctttactt gtcaactgct ctgtttcgaa aactaggagt ctcaaaaaac 300
 aattctgggg taaccagacc aaaaatgaca agtctcaggc tgctacagtg aatcttcgtc 360
 tgcattcttcg gaggtataag agtatcaaat gtcttttcag ctgcactct gatggtacct 420

35 <210> 360
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

40 <220>
 <221> misc_feature
 <222> (1) ... (420)
 <223> n = A,T,C or G

45 <400> 360
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 gcggtgaaga ttgaaaggat cggtggaagg aaacgcggtg gatctgttgt gtcgagggag 120
 aagctagatg tgtggttgag agattcgggtg gttgagatcg tgaagaatct tagagagtcn 180
 ncgttattga tgcatttata cgcgagggtc aatggtggtt tgacgacgac ggcaacgaat 240
 50 ccaaaggcgg aggattggac agagatggaa ggaaagtggg gtagaggaga agagaggacg 300
 ccggaaggag ttatattggt ggagaagctc gcagacggtg acatagcaga tgatgatgat 360
 cacgatggtg gcgcgtgtgg ggaagataca agcgcgtggg ggattgtggc gcaaggaaga 420

55 <210> 361
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 361

5 ccacgcgtcc gcaagaaata ctctgcgat attcttcggc tctggtgcag ggagcaacaa 60
 atgtgttctg gatagacatc cagacaaata cgaggcgctt ccaaagtctc ttctcggtatc 120
 tcctggagga agttgctttg gagcagatac gattgaaaaa aattcccatt caggctcaga 180
 gggaactgta tctcttactc tctaggttca ttttctttta caattcagtg gataaactcg 240
 atagcttctt gaggaacttc ccagagtctt caaatgcttt cttgattgga ggacctggag 300
 10 atttccttgt tatcgaacta actgatcagc tgcaaaaact gaagggtgga ccagtgtctg 360
 tacattatct ttctcagatg aagattcttc aagggtatgga actgagaatg actactagca 420

<210> 362

15 <211> 420

<212> DNA

<213> Arabidopsis thaliana

<220>

20 <221> misc_feature

<222> (1)...(420)

<223> n = A,T,C or G

<400> 362

25 aatcctcaca gcagatcacg tgctaatacac atggctccgg ggcttactca aaccgctgat 60
 gctatgtcca ccgtgacgat aacaaaaccg tcaactgccat cagtccaaga cagcgatcga 120
 gcttacgtga cgtttcttgc tggaaacggn nattacgtga aaggagtcgt tggtttagcc 180
 aaaggggttaa ggaaagtcaa atcggcttat ccactcgtag tagcgatgtt acccgacgtc 240
 ccggaggaac accgtcgtat acttggtggat caaggatgca tcgtccgtga aatcgaaccc 300
 30 gtttaccac ccgagaacca aactcagttc gccatggctt attacgtcat caactactct 360
 aaactccgta tctggaagtt tgtggagtat agtaaaatga tatatttaga tggagacatt 420

<210> 363

35 <211> 420

<212> DNA

<213> Arabidopsis thaliana

<400> 363

40 cttttttttt tttttttttt tttatgtcat tgtctttttc atttggttat aaacgtccat 60
 ggaaataaca ttcggtttcg cgtaacaac aaactctgaa tgtgatgttt actttgcagc 120
 aacaaacttg aaaatatgaa caaaggtccc aaagaaatga acaaaatgag cagctttcat 180
 tccatcaaat acttcatccc ataagtgtt tcatcttttc attggcaacc acgagttccg 240
 ctgatattcc tggctcattt gccgagtgc cagcatcata aacaatcttg agttctgcct 300
 45 ctggccatgc tttgtgcaga tcccaagcag acatcatagg acagcatagc tcataccttc 360
 cctgaacaat ggtggtcttg atatgtcgta ttttatcaac attgtctagc aagtgtgagt 420

<210> 364

50 <211> 420

<212> DNA

<213> Arabidopsis thaliana

<400> 364

55 tttttttttt tccgaaacaa aatcagattt gagtaataaa catatgatac aactcatgc 60
 aaacaaagcc aaaagaaatt gaaaactcaa tgagaaacga aagcattata ttgcacataa 120
 ttataaagat ggatttgtat taataagcat ggtaaacctt ccgacagatg cgctgatct 180
 ctcccttggc gcctgtcaac ggagagatat ttcccatctt taccatcgat atagcaaaact 240
 gctcaaagaa ggctcttga ttctcagcgt atagctccac cagctccttg gactgtttgt 300
 60 tcttcgtgaa cagaatctca tcagagctca atagaccttt gtacattatc aggttcttga 360

5 agtagtggtt gtcaaacttg aacggtgtcg cgaagtcgag gaagaatagg gtctggtcac 420

<210> 365
<211> 420
10 <212> DNA
<213> Arabidopsis thaliana

<400> 365
15 tttttttgct taaaggaaat atatatgcag acacaacaac caaaaacaca agctggaccg 60
accattgacg gtctgtact gactacaaca agtttttccg caaaaagaa gaaaaatatt 120
gttaaccagt ttggtgtatc tgattatcaa atcaagaaaa aggtaaattc actgggaaga 180
cacaaaatat caaaagctga aaactcaaaa acctcttctg aaaatttgcc actaagtggg 240
ttctagattg tggagacctt ggggacttca actgggaact catgaatttc atccatccat 300
gggttcttct ctttcttagg gtttaccgac cttaccgctc tccaaaccga gctggtgcac 360
20 ttgaaccccg aaccaaagc tatctgccaa attctatcac ctttcttgat ccttcctttg 420

<210> 366
<211> 420
25 <212> DNA
<213> Arabidopsis thaliana

<400> 366
30 tttttttttt ttttttgaca atacaaccgc taatgactca ttaaaagaaa tctctaacta 60
aattctacaa aattcatttt gaaaaaaatt gctacaatac atggaatgaa gatttcctgc 120
tctaategac gcttcattca ctcttcttct ccgacataag aggtagaagg caacctgaat 180
ttaatttcaa agtatctctt ctctctcttc aagttacata atgttacct cactcttctt 240
cttcttcttc ttcttcttcg gaagattctt ttgatttctc gatttctgtc acctcgtttt 300
ctgaggttgc tgtgtcgtct atcttctcat catcatctcg tagtgtctgg cttgacgctt 360
35 gaggatctga tgtccgagta tggcttgttg gttctggagc actcgagtcg gacacttgag 420

<210> 367
<211> 420
40 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
45 <222> (1)...(420)
<223> n = A,T,C or G

<400> 367
50 tttttttttt tttttttttt tgaaaccaa agaggtcaat tatcaaatg attgtttata 60
tatggtcagc aaancngtac cgacacatca tgggaacatt aggaaaacta aacctcaagc 120
tcatgaggtt attaaangtt ctttttataa caaaacttct ttattcgaaa caagctctc 180
actgattaaa ccagctgaga aaagaccggt ttaagagagg catgagtaag caaggtcctt 240
ctcttccttc aactcctctg ctgtcaaadc catcttcttc ctcgatgcgt catcaatcgg 300
taaaccttga acaatggtcc actctccatt acggcagggt acggggaagg agtagataag 360
55 tccagctgga acattgtagg atccatctga gtatactccc attgaaacaa atgtgccttc 420

<210> 368
<211> 420
60 <212> DNA

5 <213> Arabidopsis thaliana

<400> 368

tctagagcgg cgcgcctttt tttttttttt ttgcacgcaa agatcaaacc ccttatgaca 60
tctgagctta tgaggcaaac gtacacgagt attgtctagg gttttcagaa aaaaagagga 120
10 aaactcatat tccgagtcca cagcttctgg gctacatgca gactcgtctt tgtttgacaa 180
aacacatccg tttgacgcta ctagacaaca tgtacattcg aagttgtgaa tcttccgatt 240
aagcttagga atcacgataa attgattcta ccgattaagc ttaggaatca cgataaattg 300
attgagccat ccacttcaga tgcagctgaa gcttgcccgt tttggattcg tctaattgggt 360
accagtcttt gtactcctct tccattataa cccttgtaa cgtgaggata catctcccaa 420

15

<210> 369

<211> 420

<212> DNA

20 <213> Arabidopsis thaliana

<400> 369

gcgccgcaa aagttatcct ttattgaact tagaaattag aaaacagagt agaaagagtt 60
ctctatacaa gccatttaac ttaccagact ctaaacaatg agtttacact ttattcgtca 120
25 agccagtcta ggctgaagca tttctcagca gcttcgatct ttaaccctgg aacagccttc 180
tcaacttctt cccacataaa tgcaacgtcg gtatcgaga ttacatggcg cagagacttc 240
agtgaacag cagagctcgg tctatccgag aagcaacatt ctctcatgtc gatcttctca 300
agcttcttta gctttcctat ttcctctgga agacaactca ggctgacaca ttgtgagatg 360
tcgagatact taagcccagg aagctcacat atttctccag gtaatgtctt tagctcaggg 420

30

<210> 370

<211> 420

<212> DNA

35 <213> Arabidopsis thaliana

<400> 370

gcgccgcca tcaaaggcct atgttcattt gtatccactg gactcaattt ttccccaatg 60
aagctacaag gtatgcacat aatcatatct tacatttcca aatacagaag aaacgttcag 120
40 gggcagtctt caaaggaacc gtgtcggcat taactcgttg attctaaggg gcatactata 180
gaactcatcg ttcttgccgt ctccgttctt gtgtcggaaag ggcttcacc accggattcc 240
tcttgcgctg tcaattgcat gtcttgcttc caacgtgtta tctagtatgg tcgcaagaat 300
ggctgccacc aacggagccg aagcaaatac cgtattaagt atatcgttga accatcctcc 360
tgctgtccta actggtccat atcctgctct tgaagtgttg gcaagaaagt actgagcgat 420

45

<210> 371

<211> 420

<212> DNA

50 <213> Arabidopsis thaliana

<400> 371

gcgccgcct tcaaggccga cattatctgg gattcagatg aaagtggaga agggatatgag 60
tgtggetgtc tgtggcacag ttggctctgg aaaatcaagt tttatctctt gcatcctagg 120
55 ggaaatocca aaaatctctg gcgaagttag aatatgtggt actactgggt atgtgtctca 180
atcggttggt attcagtctg gtaacattga agaaaacatt ctatttgga gtccaatgga 240
gaaaacaaag tacaagaatg tgatacaagc atgttcccta aagaaagata tagagctttt 300
ctcacatggg gaccaaacta ttatcgggga gagaggtata aatctcagcg gaggtcagaa 360
acagcgtgta caacttgcaa gggcattata tcaagatgct gacatttatt tactagacga 420

60

5
 <210> 372
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

10
 <400> 372
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 tacaatggaa ggatcaacaa tcttcagaga aagccaatca gcaccagttt tacaacgagt 120
 acctttacgt ttctgcatat tgtaaggat gggacaggag gaaacttgct ccactggaac 180
 15 tgacccttgc cgttttgatt tgctttgtct tgatagcttc aaagctatgt tccgtcgatt 240
 cctctgtgta tgaccacac aaaaccctga agcagcgggt cgagaagtgg cttaaaaccc 300
 acagcaaatt atatggagga agggatgagt ggatgctacg gtttgggata tatcagtcta 360
 acgtccagtt gattgactac atcaactccc tccacttgcc ctttaagcta acggataata 420

20
 <210> 373
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

25
 <220>
 <221> misc_feature
 <222> (1)...(420)
 <223> n = A,T,C or G

30
 <400> 373
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 tataagggtta actaaggatt gtggaatcag aagtgtttgtg tttttgtgat cggagattat 120
 ggattgggga aacgtaacgg ttgatgatct ctctgatgct ctccgagaag ttgactggct 180
 35 gtctccgccg cgtcctccgt ctgagttctt ctcaagggtc accgttccta aatctgtccc 240
 taaatgggat agtcgcctca agtgcaatct ctactactac cgaacaaact atttcatcat 300
 gatcgctcgtt atacttggat tgggagtcct tacaaggcct ttannnnnnt tcgctgcgct 360
 tttgacagca ttaagtttgg catttctaaa tgacagcttt gcagggttctt ttagtgagaa 420

40
 <210> 374
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

45
 <400> 374
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 tggagttgtg tgaaggaggg gaattgttcg ataggatcat ttctaaaggc ctttactcag 120
 agagagctgc tgcggatttg tgtaggcaga tgggtgatgg tgtgcatagt tgtcattcta 180
 50 tgggtgtaat gcaccgagac ttgaagcccg aaaactttct ctttcttagt aaagatgaga 240
 actcaccatt gaaagctaca gactttgggtc tctctgtctt cttcaagcca ggtgataagt 300
 ttaaggatct tgttggaggt gcatactatg ttgccccaga agttctaaaa cggaactatg 360
 gaccagaggc tgatatctgg agtgctgggtg tgattctata catccttctc agtgggtgttc 420

55
 <210> 375
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

60

5 <400> 375
cgaggtactc agaacacgtg gatgcttaca gagccgcctg tggacaccac ccagacctca 60
aatcctttga ttctaagatt cagcagcgaa cctccaatct gatagactcg ctcaccggtg 120
aagccaagac tgggtcgggtg tccccacacg cgggtacacaa ggaggtcatt gagcacctag 180
ttgaagtaag caaatcggta gcagacgtca ttactgaatg cggagaagaa gtgtgggaga 240
10 acggaactct acaatctctg gtcaaggact attttaacag taccatggag actttgaaga 300
ttttcgagac tgtaacgcaa tgcgtccatg aagcaaaaag gggccaacgt tacattaaag 360
cggccgtggc acagtttaaa aaagactcgg aagaaaagga cggttggtgtt aaaaagaaga 420

15 <210> 376
<211> 420
<212> DNA
<213> Arabidopsis thaliana

20 <400> 376
cataataact caagtgattt ctccaaagat ttaaaagacg aaattgccct cttctgcagc 60
agaagataat gtcctatctt ccattttcacg gagggcagtt gcagttgaat catctattcc 120
cagcagatat tgtagcctca aaactttttc cgggtgcgggt ttgggatcac tctttgaata 180
aatagcatat agatcagata attcctctga gacctcccat gacattggct cagccggcac 240
25 agctttgtca catgcaagca aatcattcag cgacaagacc actccttttag agtttctctg 300
cctgagtaat gccacggctt ggaccagcga attcgataat ctactctgag cgagatcatg 360
gacaactctt ttgggttttt ccacatcaat actgagatcg gatgggattg tctggtagac 420

30 <210> 377
<211> 420
<212> DNA
<213> Arabidopsis thaliana

35 <400> 377
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tgatattgctt gatgagcttt cttctgtacc ctogtttgat ctaccccgta ctaaagagtt 120
tgatggattt cagaaaaaag ctaaagacat gttgaagcat gcaaaaaggaa caaccactct 180
cgctttttatc ttcaaagggtg gtgttatggg cgctgctgat tctcgggcta gcatgggagg 240
40 atatatctcc tcacaatctg tgaagaagat tattgaaatc aatccttata tgctcgggtac 300
aatggctgga ggagctgctg attgccaatt ctggcacaga aatccttgaa ttaagtgccg 360
tctacatgag ctggcacaac agaggagaat ctctgttttc ggagcttcga aacttcttgc 420

45 <210> 378
<211> 419
<212> DNA
<213> Arabidopsis thaliana

50 <400> 378
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cagatttcat tactaaagaa tcttgcagaa attacaataa tcaattgcaa tcatcaggaa 120
atgaacaaca atccaatag tgtaataatt aatcaagaaa actattggaa atttaactta 180
tttttatttta tttctaacta ctagcgttca ttcaagaagg cttggacttg acttagctag 240
55 aggtagcgtt tgagagcaac agcttagctc ccttgacaag ctcttccttg atcatgaaca 300
gaaccgcagc agctaaaaacg ctctgcacaa tctttgtgct catccctttg taaaaccgct 360
aaagcccttc atatcgaatc attttcagaa tcgctgccaa tgttcctttg tattgttgt 419

<210> 379
60 <211> 419

5 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 10 <222> (1)...(419)
 <223> n = A,T,C or G

<400> 379
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 aacatgaacc gtgttgagaa ctatcagtct gtaacacgga agaaatgtag gtgtcgggtt 120
 ccagtacacc gagctcttgg tttggttcag aaacagttga tgaagagacg tatctgtgtg 180
 caggggtcaat ggaacatcat gaacggacac caaccaacca tgcacaaatc ccttgtaacc 240
 acacggtttc agcagcaaca agctgggttat gtaggnnnag agattgtgta gacagacaaa 300
 caagacttga ctcatcctct tccgtagact tccatgcata cgggtcaaaca tgagcgtcgt 360
 20 gaaaatctga atcagaacat catctgcaag cgccccgata tgttggtgta gaagagtgg 419

<210> 380
 <211> 419
 <212> DNA
 25 <213> Arabidopsis thaliana

<400> 380
 30 tcgagcggcc gcccgggcag gtgtcgctta gctccgattg gttcgtcgtc accatcactc 60
 gtcttcaacg atttgcttct ttttttttct ctctatcttag tcccatcttc ctcaatttct 120
 aaacccttta tttcgaaatc attgttttgc tctttctttt gattcgaatt cgacagaaca 180
 gctcttttaa gttattcata aaccttgtgt ttgagttttg gtccatcgag tatatgggtc 240
 gtggctcagt aacatcgctc gtcctgggtt ttggttttca tccacagac gaagaactcg 300
 ttcgttacta tctgaaacga aagatctgca ataaacctt taagtctgat gctatctctg 360
 ttaccgatgt atacaaatct gagccttggg atctcccaga caagtcgagg ctgaaaagt 419

<210> 381
 <211> 419
 <212> DNA
 35 <213> Arabidopsis thaliana

<400> 381
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 tacgggaatc tgattggaat aacaatcggc tacacaatca cagcttcaat tagcatggtg 120
 gcagtgaaga ggtcgaattg tttccacaaa aatgggcata atgttaaatt tgccacttca 180
 45 aacactccct tcatgatcat atttgcaatc atccaaatta ttcttagcca aatcccaaatt 240
 ttccataacc tctcttggct ctccattctt gcggccgtaa tgtccttttg ttatgcctcc 300
 atcgggtgtt gtctctccat cgccaaagcg gcgggtggcg gtgagcacgt aagaacaaca 360
 ctgacaggag ttacggtcgg gattgatgta tcgggtgccc agaaaatatg gagaacgtt 419

<210> 382
 <211> 419
 <212> DNA
 50 <213> Arabidopsis thaliana

<400> 382
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 cttcaggaag gaatagcgag aatggagaaa cgtcagaaat gggggcacia aggcaaacia 120
 gctgctcttg atgctttaga gaagtccaa gaggaagctc gcaagtcgag aattggaatc 180
 tggcagtacg gtgacattga gtccgatgat gaggacactg gtccggccag aaagcctgct 240
 60 ggtggtcgcc ggtaaaatta taaaaaccga taagtcgtga tatggttcaa agggaccatg 300

5 aggtagggag agaagcttcg gtgtgtttct ctaaagagtt taaagacatg tcgaactttt 360
 tgtaagggtt tagatttggt tcttctcttc ttcttttaat ttatatacgt tttagactt 419

<210> 383
 <211> 419
 10 <212> DNA
 <213> Arabidopsis thaliana

<400> 383
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 15 attatcaaac aaaataaatt atgtttactc acaaagtttc ttcaaacaat agtaaccaag 120
 cagagcatta ttatcaatat gtttacaaca cacacacatc aagccagggt tctcgaactc 180
 tttcatgaga agaggctctc aagcttttgt tctcaccaca agaactgggc acttagcatt 240
 gttaacacag taattgctaa cacttccaag gaaagtcctt tgtaatgctc ctttaccatg 300
 gcttccaacc acaagcatat caacaccaag cttctcagca gcttcacata tcgcttcttt 360
 20 aggatttcca aattccaaca ctttctctgg agtaaccca gtctcagcac aaatttttgg 419

<210> 384
 <211> 419
 <212> DNA
 25 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(419)
 30 <223> n = A,T,C or G

<400> 384
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 aaaagcggcc tggatttcaa cacacaaaaa ggctggagct atgaatgcat tgatccgtgt 120
 35 atctgctgtt cttaccaatg gagcatatct tttgaacgtg gattgtgatc attactttaa 180
 taacagtaag gctattaaag aagctatgtg tttcatgatg gacccggcta ttggaaagaa 240
 gtgctgctat gtccagttcc ctcaacgttt tgacgggtatt gatttgcacg atcgatatgc 300
 caacaggaat atagtctttt tcgatattaa catgaagggg ttggatggta tccagggtcc 360
 40 agtatatgtg ggtactgggt gttgttttaa taggcaggct ctatatgggt atgatcctg 419

<210> 385
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

45 <220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = A,T,C or G

50 <400> 385
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 tcaatggata gttgtctctc taatcaaacg gcgcttcagt ttctcccgtc gcgttccagg 120
 agacagagcg gcgatggagg cgggtggttt gttattccgg cgaagaggaa gatccagtat 180
 55 agttcgatgg ttgtggttgc ggccggcgga cagagtcggt gtgagcctgg aagcagtcta 240
 aacgcgccgc ntgagccacg atcggcgagc gggagggtttc tgagaagcgt gttgctaaac 300
 aaacggcagc tatttcatta cgccgccgct gatgagctaa agcaactggc tgatgatagg 360
 gaagctgctt tagctcgtat gtctctcagc tctggttccg atgaggcttc tctccacag 419

60 <210> 386

5 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

<400> 386
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 agagagttga agattgtatt tactattgct aacgaacaaa cacattacaa ttttatcata 120
 atattttcaag atcctttaag tatgattctc ctaatcgcat gttcacattt accaagtgat 180
 ttgaaacaag gcagtctgcg gccaatgtga ttttggtcag tctatttggt cttctccatg 240
 acgcagtatg atttaggcca agaaaactta agactagact catactacgc ttttaatccc 300
 15 tgcattcttg tgaattcct ctgaaggaac cacgtccgca ataatctttt cttgaccgcg 360
 ccaaagaatc ctgtcaatga ctccaaattc ttttagctttt ggtgcatcca tgtaatatg 419

<210> 387
 <211> 419
 20 <212> DNA
 <213> Arabidopsis thaliana

<400> 387
 25 gtgattgtgg aaaagctgga cagagtgatg ttcctgacat tgacaagaag aagtatcttg 60
 taccagctga tctaaccatt ggccaatttg tgtacgttgt gaggaaaaga atcaagcttg 120
 gagctgaaaa agccatcttt gtctttgtca agaacacatt accaccaact gcggcattga 180
 tgtctgcaat ctacgaagaa cacaaagacg aagacgggtt tctctacatg acatacagtg 240
 gagagaacac atttgggtgga tctttctact gctaattacc tcagcttcta cgtctgatcc 300
 tcttgatgat tgtacattct cgctcgacct aataatgtca ttttactttc ttggtttaac 360
 30 cttttgagct ctcttactat ctcttgcat tgaagatggg atttgaaaca agattctaa 419

<210> 388
 <211> 419
 <212> DNA
 35 <213> Arabidopsis thaliana

<400> 388
 40 atcgacgaag gagttttgag ttgaggaagt gagtagaaat caatggagga agaatactaag 60
 aatggcggaa ccacgattcc gactgaagaa ttggcgggtg ttgcgggtgcc acctgtagta 120
 gaagaagagg agccgatggg cggacctgga ccagctccac gaggcaaacg caagcgtccg 180
 cttcaattcg agcaagctta tcttgattcg cttccttctg ctaatatgta tgagaaaagt 240
 tatatgcatc gagatgtagt tacacatggt gctgtttcag cagctgagtt ctttataagt 300
 ggaagtatgg atggtcactt gaaattttgg aagaaaaagg gtgttggtat cgagtttgct 360
 aagcatttcc gctcccatct cggccaatt gaaggtctag cggttagcat tgatgggtt 419

<210> 389
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

50 <220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = A,T,C or G

55 <400> 389
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 attgaacctt ttgggtctat atcagaatat cagacaggca gtcagcgttt atgacgattt 120
 atctcatggg attgacagaa ctgccgaatt aacggttggg cgctttggtg gtatcgatgc 180
 60 ttttagcacag gagtatggac aaggtatggc taagcaaggg atggatgtat tactttccac 240

5	attatcaaag ctattcaatc tgttggagac atctcataaa ggccaaattg ttgggggttat	300
	cgtccttgat gagagagtaa accaagaatc agaaaatctt ttgaactttg ggtctnnccg	360
	ttcatctgca cgctcaatgg tggaagtgga ggaattcca agtgcagcca ttatcgctg	419

<210> 390

10 <211> 419

<212> DNA

<213> Arabidopsis thaliana

<400> 390

15	tcgagcggcc gcccgggcag gtaacaaatc tcaggcggct caacactatc ctcttctaca	60
	ttttccaacg atggcctcaa acgcaactct gtctttcacc gccgctaate ccgctctgtc	120
	tcctaagcca ctactccctc acggctctgc ttctccgtcg gtttctctcg gcttctccag	180
	gaaagtgtgc ggcggcagag cagtggctgt tgcagcggct acggtggaca caaacaacat	240
	gccgatgacc ggagtcgtgt tccagccttt cgaagagggt aagaaagccg atctggccat	300
20	tccaatcaca tctcatgcct ctctcgctcg ccagagggtt gccgacgcta gcgaggcagt	360
	cattaatgag caaatcaatg tggaatacaa cgtctcctat gtgtacctcg gccgcgacc	419

<210> 391

<211> 419

25 <212> DNA

<213> Arabidopsis thaliana

<400> 391

30	ttgctagaga aagaaaatat atgtaaaaaa aaatgcaaac acaaattacc ctttattatt	60
	attaggtggg ttggttaacaa aggaaaaaca tggagcttca agttcctata gtttgagaaa	120
	tctaactagg gtaccacttg gttgaggaaa tgccctcgag ttgaacttca accttcaaca	180
	tatcattcac aacaaaaccc tttgatgaat ctctgagatc agctagaggg ataacttgaa	240
	agtcgcccga gtaataaaaac caagaagtgt accaattact aacttgtatt tcgacgttat	300
	tgagtttgcg ttggttaaga actcgaagct tggctcgaac ataaatcatc tcaaaggggt	360
35	tgaatttatc gttaatgtta agatacagcg acatggcttt tccctttgaa agattacga	419

<210> 392

<211> 419

<212> DNA

40 <213> Arabidopsis thaliana

<400> 392

45	ttttttttgg atcaatgttg gaactgaaga taccaaagtg actgggtttca acaatgaaac	60
	gaacaatttt tccaaaagca aaacatgtga tatccacaaa gtaagaagtg aaaccaaact	120
	aaaaatcaac agaactctgca ctttaatgaa tcagaaagta ggaatgggtt tggagccgat	180
	gaactgtttg agaatcgctt tctcttcgtc attccgtttc ttctcttctg cgtttttcgg	240
	atttactttc cttttctcct ccaacatcca tttgaagagc tcacgttggt gtttctccgg	300
	aattggctca cgtgccttga tcaccactgg ctctgcaacc actgtggaag acaaagtttt	360
50	ttccacagta acaggagctg caactgaact cgatttagca gccgtctctt caactacag	419

<210> 393

<211> 419

<212> DNA

<213> Arabidopsis thaliana

55

<220>

<221> misc_feature

<222> (1)...(419)

<223> n = A,T,C or G

60

5 <400> 393
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cccaaactga aagattaaagt aaaaaccaa tccaaactcc atctcattct cctgagattt 180
tgagtaaaaa ggatgattca tttgnmntct gtttgaaccc gcaaatactc ggttaagcta 240
10 acgaacctga ttccctaactc ataaagctgc taaaaggggt tagcttgagt taccggcata 300
taaacacatt gcatctgac tttgagaatc atccttggct aatgctacct tcaaagggtg 360
tttttagtca taagctctct ctttaagcgt tagacatcag tatgccaaac cgggcggtg 419

<210> 394
15 <211> 419
<212> DNA
<213> Arabidopsis thaliana

<400> 394
20 gcggccgcga ttcgaatcat tctctctctc tttcttgatc tgaaaattga gtcccaattc 60
cagcaaaatt atcaatcgaa tttctgatca actgagcgcg acgggtggtg cgacggtggt 120
ggcgacggtg acagcgatcg acggttatgg cttcgaagac taaaactagt ttgtccgaaa 180
caacaactac tactactcct accgggaaat catctccagc aactccaaga atagcaaaaa 240
gaacagttaa taaatccgaa actagtaata ataattctcc atctactact actccacatt 300
25 cagctctttc tcttgatcgt tcttctccaa attccaaatc ttctgttgag agacgatcac 360
caaagcttcc aactcctcct gagaaatctc aagcgcgagt agcagcggtg aaaggaaca 419

<210> 395
<211> 419
30 <212> DNA
<213> Arabidopsis thaliana

<400> 395
35 tttatataga aacaaattca gacactttga aataaagcca atacaagaaa atgttttaga 60
agggaatggt gtatgttcgt tataaacaac ttaaagaacg actagccatg catcagtttt 120
cagaccagcc ttttccagca aaaaatatca aaaatcagag ttgaagggaa ctttggttagc 180
cggcaaccag ttattgccgt ctataaaaagg tttcaccgta aacttatttg cttccttctt 240
tggttaaagac gtcttcaacc cttgccactt aaccgcggtt ttgggtcgatg ctcttgccc 300
ggaattttaag tactcggcgt aaaagatcgt gtctggcgcg gtatctcctg tccacggtaa 360
40 ccaccctttc gggttgatga atttgtccat gaacgacttc atgataaccg ttgtagaga 419

<210> 396
<211> 419
<212> DNA
45 <213> Arabidopsis thaliana

<220>
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<222> (1)...(419)
50 <223> n = A,T,C or G

<400> 396
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cattctgatt catgtgactc tggtttcggt tctttctgtg tctctgctgt gtcgttttct 120
55 cggcatattt ctgatcttct gttctcgggt gggtttttggt ttctgggtat tgattgattg 180
attcaaaagt cttcaannnt cctggaaact ggatctgggt ttatccgttt ttactcgtct 240
gagaagagaa aaaaggatga atccttatga tgcgaaagac agaagatgga ttctctctat 300
gttcttcttc gtcgttttgt tctgcaacaa cgtttcgact tctgtctctt catctgaagt 360
tatcacgatt aagccaagac atttatcctt gctaaagagt gctttacaac ggtcaagtg 419

60

5 <210> 397
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = A,T,C or G

15 <400> 397
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 attggaagaa aaccaaactt tgcgcaaaca gggttgagatg ttggggagag gttcaggacc 120
 aaaagtgttg aatgaaaggc ctcaagattc tagcccagaa gccgatcccg agagctcttc 180
 atcagaagag gatgagaatg acaacgagga gcaccattcc gacacttcct tgcagttggg 240
 20 gttgtcgtcg acgggggtatt gcacaaagag aaagaagccg aagatcgaac tgggtctgcga 300
 taactctggg agtcaagtgg cttctgattg atggaatcga ttatctttct aattctggtt 360
 nnttaggggt ctctatgtgt cttcttgttt ctggtctgttc ttttgcttta tttcatctc 419

<210> 398
 25 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

<400> 398
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 agaacaagga aatgccacct gaatatgcgg ctgtgatgat ccagagggcc ttcaaagctt 120
 atttgattcg tcgctcaaaa tcattgcgtg ctcttcgtga tcttgctatt gcaaagacta 180
 aacttaagga gctaagagct tctttccaca acttcagcta ccgtcgcctg attgctcgtg 240
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 35 ccatagaggg agttgatgtg atggttcgag gagcgaagag atcaatggtg gatgagctgg 360
 aagcaatgtt agatgtggta gacccgcaac cgcaggggaa atcattgtcg atgagaaga 419

<210> 399
 <211> 419
 40 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 45 <222> (1)...(419)
 <223> n = A,T,C or G

<400> 399
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 gctctctgcc aggtctgttac tcatatcgcc gacctcgca ccgcccctcc tccgcaacct 180
 tctctcgccc cttctccgcc tccccaaatc cagcgcctc ccggtcagct gcctcaccct 240
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 aaaggctgca tcaacgacgc caagtgcatt cgtcaccttc tcatcaacaa attcaaattc 360
 55 tccccagatt caattctcat gcttaccgag gaagaaaactg atccatatcg tatcccgac 419

<210> 400
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 <212> DNA
 60 <213> Arabidopsis thaliana

5

<400> 400

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gagaaaaatg	agtgaaagag	atgatggatt	ggggctaagt	ttgagcttga	gtttagggtt	180
10 taatcaaaaag	gacccgtctt	cgagggttaa	tccaatgcct	ctggcttctt	atgcatcttc	240
atcacacatg	cagcatatgc	agcagagcaa	ttataaccat	cctcaaaaaga	ttcagaacac	300
ttggattaac	atgtttcagt	catcagagag	aaactcggac	atgagatcgt	ttctccgggg	360
aatagacgtg	aacagagctc	catcgacggg	ggtggttgac	gtggaggatg	aaggcgccg	419

15

<210> 401

<211> 418

<212> DNA

<213> Arabidopsis thaliana

20

<220>

<221> misc_feature

<222> (1)...(418)

<223> n = A,T,C or G

25

<400> 401

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acctagagac	tccaccgtga	atcagcaaca	tcaatactat	tacggaacgt	ttcaaggcgt	180
tgcaaatctt	cttactcctg	ctccaccacc	gcaatcttat	caaccacagc	atccgattac	240
30 tacgtttcct	ggacatgctt	accaaaatct	ccaaggatcat	ggtggtggtg	tgaattatgc	300
tcaaggattc	ccagttgttg	ttcctgatta	tacagtgggt	gaggtgagac	caatgataga	360
gcatgaactt	ccttgttgtg	gcttgggcat	gggctgggtt	ctgtttatca	tgggcttc	418

35

<210> 402

<211> 418

<212> DNA

<213> Arabidopsis thaliana

40

<220>

<221> misc_feature

<222> (1)...(418)

<223> n = A,T,C or G

45

<400> 402

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ctggaagtga	aaatggaaga	cgtgctaaag	aacatatgga	gaaaggacaa	ttggtccttg	180
atgaaatagt	tgtaatgatg	gtaaaagatc	gtttatcaca	gacagattca	gagcaaaaag	240
gatggctttt	ggatggatat	ccaaggagtg	catcacaggc	aacagctctc	aagggatattg	300
50 gattccagcc	tgatctattc	attntcctcg	aattattctg	caacagattg	ctgaaatgtt	360
taattctggc	aaatcagtct	taaaatccgg	acaactgata	ataaaaactag	gttcctga	418

55

<210> 403

<211> 418

<212> DNA

<213> Arabidopsis thaliana

60

<400> 403

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aatataagta	aagtccttag	aggactgcgt	gttggtaccc	tgttccatca	agatgctcat	120

5 ttatgggctc cggtcgtaga tactacttct cgtgacatgg cagttgctgc aagggaaagc 180
 tcaagaaagc ttcaggcctt atcttcagaa gataggaaac aaattctaca cgacattgcc 240
 aatgcccttg aagtaaatga gaaaacaatt aaagctgaga atgatttaga tgttgctgca 300
 gcacaagaag ctggatatga agagtctttg gtagctcgct tagttatgaa gcctgggaag 360
 atctcaagcc ttgcagcttc cgttcgccag ctagccgaaa tggaagatcc aataggcc 418

10 <210> 404
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 <212> DNA
 <213> Arabidopsis thaliana

15 <400> 404
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 ggatcattga agaagctcgg aaacctatca ccgtagctac tggactcgca ggtgctggtg 120
 gctctgggtg aagcagtaat ggtgccattg gaagtagcag tatggatctc gatgacttgg 180
 20 acacagattt cgacgacatc gataccgctg atctcctttc ccctttgtga acaattgtat 240
 caaaaaccaa agatttcattg tttctgaagc ctgctgatac tactacacat tgatgataca 300
 cagacgtgaa tataattggt cactaaaatg tataattaga gtgtgaaaac atttgtcttt 360
 gattacaaaa atgttctgtt agacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 418

25 <210> 405
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 405
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 tcggaaagta ctcagagaca acatccaagg gattaccaa cctgcgattc gtcgtctcgc 120
 gagaagagga ggctgaagc gtatcagtgg tttgatctat gaagagactc gcggcgttct 180
 caagatcttt ctcgagaacg tgattcgtga cgccgttact tacacggagc acgctcgccg 240
 35 gaaaactgtt acggcgatgg acgtcgttta cgctctcaag agacaaggac gaactttgta 300
 tggattcggc ggctaaatcg ttcggattgc aatttcggat tttgtaaact cttcaatttc 360
 agcatctagg gatttcagat ttgtaatttc tcagttaaac gatgaatgaa ttgaaaaa 418

40 <210> 406
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana

45 <400> 406
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 cattaacaat ggctggtcgc tcggaaacgc cgctgtattg cggctggaat gagcgacatg 120
 tgaagaacac gaaagaaaag atggagggtt attattatct cgagaggaaa gatggaattg 180
 cagatctagc tgttattggg aggttgaaga attctaaacg catgtctttt agatacgctt 240
 tgaagaagaa tcgctctgtc ttgaaaaagc ttaattctaa agatgatgtt gcgctttggc 300
 50 tcgattctat tgtttctgct aaacctatta atgacttaat tttgctgcag acagatccgg 360
 tttccacctt ttggtgagat acctcatgta gcagatgtac cagctactgt tatgactg 418

55 <210> 407
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 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 407
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 tatatcgggtt acaaaaacaa ttgttatgag atcattctat aagagagatg caaagagcaa 120

5	cactcatgcc	aagaatcaaa	gatatcaaat	ggcaggcact	gtttttaagt	gttgattttc	180
	ccgagttggt	catttctgca	agaactccag	caacagctat	gtatatgaat	cctcccgcgtg	240
	tgaatccctc	aatcaacgat	gattgtcctg	gttcattttc	ccagaccaa	accaatgcag	300
	ttccggcaag	tgcgacgagt	gcagagagga	agttgaagaa	gagtgccttt	gttactgtga	360
	agcctgatct	tactagaatc	ccaaaatcac	ctatctcttg	gggaagctcg	tgggcaag	418

10

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 <212> DNA
 <213> Arabidopsis thaliana

15

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	atgagagggtg	ctgtatctat ggctcttgca tacaacaagt ttacaagggc cgggcacaca 120
	gatgtacgcg	ggaatgcaat catgatcacg agtacgataa ctgtctgtct ttttagcaca 180
20	gtggtgtttg	gtatgctgac caaaccactc ataagctacc tattaccgca ccagaacgcc 240
	accacgagca	tgttatctga tgacaacacc ccaaaatcca tacatatccc tttgttggac 300
	caagactcgt	tcattgagcc ttcagggaac cacaatgtgc ctcggcctga cagtatacgt 360
	ggcttcttga	cacggccccac tcgaaccgtg cttactact ggagacaatt tgatgact 418

25

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 <212> DNA
 <213> Arabidopsis thaliana

30

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	atcattaaga	ctattataat aaccctaaca taaaagatc catcagcttt cccttgtttc 180
	tcacgcaaac	tctgaaaatg ccaatttgag gaaaaccttc tcctttactt ttgctattgc 240
35	ctctctctta	tttatttctg ctctaccttg tccgaagcat gtatcctcct ccctgattgc 300
	ttctctaccg	tctgaaacaa accgttgaag caagcacgaa aagattcgca ttaagaacac 360
	caaaaaggac	aaggatcttt ctcccaagag cagaaaccat ttgctacgat aactctaa 418

40

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 <212> DNA
 <213> Arabidopsis thaliana

45

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	tagaagaatt	atggtgcaaa ttgcattttc tttttccttt ttgttccttc cacttatggg 120
	ttcagaattt	gaaaaaaaaa acagctttta ccttctttcg tttgctttcc ataccaaagg 180
	aagcaaacaa	aaagaggctg atgaagaaag aagaaacaac ataactgtta aatagtttta 240
	agaagggtcat	tccttttttt tttatcataa tcaattccca ttgcatcggt gaatcacacc 300
50	attactgcta	cttccttgca ctagcttctt cttctgggtt tggttggttaa tccgggtcaag 360
	tccccatata	cttattgttc catcatcgct tgctgaagcc aacatgtgta gattcgtc 418

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<210> 411
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana

60

<220>
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 <222> (1)...(418)

5 <223> n = A,T,C or G

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10	gattgttttag	caaaccagac	agcgatttgt	ccaaagattt	gaagacgaaa	aagaaataac	180
	acctattcta	cccacttcag	ggccccatttg	gtgggtatctt	ctcagggcctt	gagagcgaga	240
	gcaatcccaa	ccttggcact	cttatcgatc	gccttagaat	caacctctcc	agaaacggtg	300
	aagaacgact	ttggacgcca	ctcatgttgg	atcagagcgt	tnnnacacca	gcattgttca	360
	ctcttgccctt	cactgtggtc	aatgggtcaa	gcgcgtgttg	agttccgaca	gtgatggc	418

15

<210> 412

<211> 418

<212> DNA

<213> *Arabidopsis thaliana*

20

<400> 412

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	aaacttaaca	aaaagaatca	attctctatg	taaagttttc	tcgattcaac	aatagatcaa	120
	agattctgcc	agacattggg	acacggcttt	aagaaaaaga	aaataatgaa	aggccatatt	180
25	atatggagta	ccttgattct	tcagcaaaaa	tttctcagga	cgaagcagag	aatgtcaaga	240
	aaacccttga	tctcgttga	tcgtgttctt	gtttcttcaa	tatgtggcag	taattaagct	300
	ccatacggaa	taggcttgtt	ggtaagacga	ttccagcacc	aactgaagtt	ctgaatgtct	360
	ccaagaactt	tggagcagtg	aagttttctaa	actcattctc	tgataacttc	gccatatt	418

30

<210> 413

<211> 418

<212> DNA

<213> *Arabidopsis thaliana*

35

<400> 413

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	aggcattagc	ccaaacatat	aaaccccaat	attctttttac	aattgaaatg	catcaagccg	120
	tcaacagata	tacaccaaat	gacccaaaact	gaacaaaaaac	aaaaaaagtt	aaaacagAAC	180
	agaagcaaat	gagggagggga	gggagagaga	gagagagaga	gagagataca	catggtggat	240
40	gatttttcagc	ttattcccag	ttgcagactc	caaagtttgt	tttatctact	attaaggcaa	300
	atgatgatcc	tgctgaatta	tttttagaag	atgtgaaggg	gcgagagata	ttacgtgaaa	360
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45

<210> 414

<211> 418

<212> DNA

<213> *Arabidopsis thaliana*

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<220>

<221> misc_feature

<222> (1)...(418)

<223> n = A,T,C or G

55

<400> 414

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	aaaggcaaga	gagagcctga	agatgatatt	gacaccaaag	tgagtcttaa	gaagcagaag	180
	aaagacgtga	ttgctgctgt	ccagaaggaa	aaagctgtga	agaaggttcc	taagaagggt	240
	gagagctctg	atgattcaga	ttctgaatct	gaggaannng	agaaggctaa	gaaagtccca	300

5 gccaagaagg ctgcttcaag cagtgatgag tcctctgatg actcttcttc agatgatgaa 360
cctgcaccca agaaggccgt tgctgctact aacggaactg ttgcaaagaa gtctaagg 418

<210> 415
<211> 418
10 <212> DNA
<213> Arabidopsis thaliana

<400> 415
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tactcaaata tccacttccc gtctctttac gccggagatc atcaactctc gttaaagcct 180
cttccaccgt cgcttcagct tctctctctc caactcctcc tttgggtcca gctccgggtc 240
catggcaagg agctgccatt aagcctcttc tcgcttcgat cgctactggg ttgattctat 300
ggttcgttcc agtccccgaa ggtgtcactc gcaacgcgtg gcaattactc gcgatcttcc 360
20 tcgccaccat cgtcgggatc atcactcagc cgcttctctc cgggtgctgt gctctaata 418

<210> 416
<211> 418
25 <212> DNA
<213> Arabidopsis thaliana

<400> 416
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tctctttctc tctctacagc cttacatgaa cagtgcactgt tctctctctt tccctctcct 120
tccttttttc ttctacttct ctttcccttt gcttcgaaaa gggatatctg tgatctttat 180
cgctcaaaaa tcttcacttt cagatcaggc cactcggtga tggaatctgt gacagtattg 240
attactagag agtaaagaca agttctttta atctcaggga agaaggaatt ggtgtttaag 300
attgctctgt gttaatgatg gcttcaaaaa ctccagaagg atcacttacc aattccagtc 360
aaagtatgtc aatcaacact ttagcagatc aagtatcttc gagtttgtct ttcgctga 418

35 <210> 417
<211> 418
<212> DNA
<213> Arabidopsis thaliana

40 <220>
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<223> n = A,T,C or G

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aaagcgctaa cacagtgaac tagccagtgt ggtatggtga tattcttaag aaattttgca 180
50 gactaaacaa atcttcccaa cccattcgc tatacactac cttcgaatgc catttccctac 240
gtctgtgaac ctgtcgacta atcattcttt tgtgtttgac accgaataac agtgtttgac 300
aatgcaggag ttgcttcata gttcctgtaa annngtcaag ctcttaggct tattagcagc 360
ttctgacttc attcaagtgg attcaacctt ggattatata gtgtagtctc caactgat 418

55 <210> 418
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<212> DNA
<213> Arabidopsis thaliana

60 <400> 418

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aaggaagaga ctcttctaga gcagcttctc ctgatccact tggcgaatca tcaagctccg 180
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cttgctcaggg tctcataaga tatatgctag tggattacag gataagtatc tgtggccgag 300
10 gaacctactt atcaagtttt aacttttgat ttcgcccatt atagtgtcaa atgttattaa 360
tgctgtattc tcagatgtgt gtttctgaaa aaataaatgc tatgctgcta cttcgagg 418

<210> 419

<211> 418

15 <212> DNA

<213> Arabidopsis thaliana

<400> 419

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aaccatttca cgagcaggat ctgacagtgg tagacctcca tctattcatg ttgatgagtt 180
tatggccaga cagagagaac gaggccaaaa tccctccacc attgtggttg gagaggctgt 240
tgtgcaagtg aaaaatccta ctctgctag agatactgaa aaagttgcag gtaaacctaa 300
acaattcaaa gccgatcctg atgatgatct acaaggaata gatatagttt ttgatgggtga 360
25 ggaatgtgaa ggacctgatg acaagttgcc ctttcttcag cccgatgaga accttatg 418

<210> 420

<211> 418

<212> DNA

30 <213> Arabidopsis thaliana

<400> 420

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tttacacaaa tgatggcgga gagattgtta agggggtctg ctccaacttc ttgtgtgact 120
35 tgaagccggg tgatgaagct aagatcactg gacctgttgg caaggaaatg cttatgccaa 180
aagaccccaa tgccaccatc atcatgcttg gaacaggaac tggaaatagc ccattcagat 240
catttttgtg gaaaatgttc tttgaggagc acgaggacta caagttcaat gggttggcgt 300
ggcttttctt ggggtgtacc acaagcagct cactgctata caaggaggag tttgagaaga 360
40 tgaaggagaa gaaccagac aacttcaggc tggactttgc ggtgagcaga gagcagac 418

<210> 421

<211> 418

<212> DNA

<213> Arabidopsis thaliana

45

<400> 421

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gtttcttcaa tcgatttgct tcagatttcc ccagattata tagaattcga tgtcaagaca 120
cagaattcac atgggttttg tctaaaaatc ataaaaatcat atcttttttac ggatttgaag 180
50 atgaatcaga attcctctgt tgcggaggcg acgcttcagc ttaattccgg tgaaaaacca 240
tcgccgggat cgattccggt tatctcctct ggtcaacacg gaaacataag cacttcagcg 300
acgagttcga caagcacaag ctccaggtagt gctcttgccg tagttaaatc cgccgtgaaa 360
aaaccaacta aagatcggca tactaaagtc gatggtcgtg gacggcgaat tcgtatgc 418

55 <210> 422

<211> 417

<212> DNA

<213> Arabidopsis thaliana

60 <400> 422

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taacataaca gagatacagt aggaaaccaa tacagagaca aactttacaa attacaaata 120
gactaacgct agtgtctcat ccaaaaccag aatttggtga aaaaattata attatgaaac 180
aagcacaagt tcatcaagcg aggaaaaagg attataaaag ggaacgatag taaccgaggc 240
tagaaggagt tccagttatc tgaccttttc gtagggtttt catccgaaga gactttaaag 300
10 ggacctgtgg aaccaaacgg gtctgcatca tcaaacgagt atccatggct accactgaaa 360
tcctttgtac tattcataga gtcgaatctt gatagcgagg gaccaccaa gtctttg 417

<210> 423
<211> 417
15 <212> DNA
<213> Arabidopsis thaliana

<400> 423
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gtaaaaacgg atactaggaa ttgtatacac cacaaaatta cgtataagaa agtctaaaca 120
aaagtaagggt aaaaaaaacc aacacagtag taatccaaaa atccaaaatc taaaagaaat 180
agcctctata cgcttgggct gggcctataa cccgttgaag atccggattc atgaagtccg 240
ggttcgggtc ctaaattgga tctccctctt ttcacagagt tcatcttctc caatttgagt 300
cgggctctga atcttgcat gaaatcatcg gctttggtat ctacgtcggg gctcggacag 360
25 aacatactcc cggcggcctc cttacttcca gctgattgag ctacatccgg atcatca 417

<210> 424
<211> 417
<212> DNA
30 <213> Arabidopsis thaliana

<220>
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<222> (1)...(417)
35 <223> n = A,T,C or G

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cacacctcgg gagctataga agatcaacct tgtgaagctc ttgaagtaga ttttgcagat 120
gagtattttg gaggccttac tctgagttat gatactctac aggaagaaat aaggttcgtg 180
atcaaccggg aacttatcgc tggcatgata tttttgcctc gtatggatgc aaatgaagca 240
attgagattg ttggtgttga aagattttca ggttatacag ggtatgggccc ttcggtccaa 300
tatgctggtg attacacaga caacaaggac ttagacattt tcaggaggcn aaaaacaaga 360
gtcatagcta tagatgccat gcttgaccca ggaatgggac agtacctcgg ccgcgcac 417

45 <210> 425
<211> 417
<212> DNA
<213> Arabidopsis thaliana

50 <400> 425
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tggaacgcaa tcgatcaact cttcatcttc gtccattttc gtacctatct cattatctac 180
55 ttcctacggg cgaagcaaat gcgccttctc aatctcgcgg aagaatccaa aatcgacgat 240
tcgttgcgat attgctgtga aatcggcggc ttctgtagac gcggacgctg atctatcgtc 300
atctacgtcg ttggagacgg aggaagacga gaaagcgaag gagaagattg gagctagggt 360
tagggttacg gttccgttga aagtttacca tgtggttcgt gtacctcggc cgcgacc 417

60 <210> 426

5 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

<400> 426
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 agccttgtgt tgaactgaaa gtcataaaag ttctttcctt tctccacttg caagcattcc 180
 ttatcaagct cttctctgga tcgaaagaga gactcgaaat ttttatagt tagcaatctg 240
 ttctcacggt atctatccct cgtgtaattc aggcctctcc atggaatccc ttgaatatct 300
 15 tttccattcc tagcttctaa cgctgatgtt tcattgttcg tcttactctg actcagctcg 360
 aaatcaaaat cggagtccat gaaatcgga tcagaatcac tggtgacatc aacctct 417

<210> 427
 <211> 417
 20 <212> DNA
 <213> Arabidopsis thaliana

<400> 427
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 ctggttgctgg tcctggatcat agtgtagcag tcacatcgaa aggagaagtt tatactttcg 120
 gatataataa ctctggacag ctaggacatg gtcataccga ggacgaagct cgaattcaac 180
 ctggttagatc attgcaggga gttcgaatca tccaagcagc tgctggtgct gctcggacaa 240
 tgctaataag cgatgacgga aaagtattatg cgtgtggaag agaatccttc ggggaagctg 300
 aatacggagg gcaagggact aaaccagtta caactcctca gcttgtaaca tctttaaaaa 360
 30 acatatttgt agtgcaagca gctattggga attactttac cgctgttctc tcccag 417

<210> 428
 <211> 417
 <212> DNA
 35 <213> Arabidopsis thaliana

<400> 428
 40 agagaacgag agagagagga gaacaaaatg gtaggcgaag aggagacgaa gaagagagta 60
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 atcgaagggtg ttggtccttc ctcaatcatg gagcttaag ctcagctcta taagtctcag 180
 gaggaagcta aacagacaaa ggattttacg ggatccgatg ctcaatacca tcgcgccaaa 240
 gaaaggattg ccgccaaaga ttctttcgcc gcgaaaact ccggcgctga aagtcgcaat 300
 ttaaaggaca agcttgagca caaagctgta aaagatggag cagttagtta tgccgcattg 360
 gagaaaaagg ctcagttgta tgataaactt gctagaggag agctttctga tgaagaa 417

<210> 429
 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

<400> 429
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 attaggagca ttggttcacc tcacgaggt tggaggccac caatttagtg agggagactg 120
 ggatatgctc ttgaaaagca taagagatgc atcatacaca actcaaccgc tggagctggt 180
 55 gaatgctttg agttttgaca atccgaaaaa gaacctagtt ttggcaggag acatagaggc 240
 cgatgcctct gattctccac gagttgatcg taatccggac gatattaaag ataattggaa 300
 agtgccgcc caggcatctc caaggattgg tactcatggt acttcctag aatctgggat 360
 accgcctaag gctgatggtt cggaaggctc tccatcgta tctggaaggg ctcaaaa 417

60 <210> 430

5 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

<400> 430
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 atcgacaatt ttacacctatc cgacgagcag ctgaaggctt caccttcgag gaaagatggg 180
 atagatgaaa caactgaaat ctctcttaga atctatggat gtgatctcat ccaagagggt 240
 ggaatattgc tcaaactgca gttatggcta ctgggcaggt tctgtttcag cgattctatt 300
 15 gcaagaagtc tttggctaaa tttgatgtca agatagttgc tgccagctgt gtatggcttg 360
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<210> 431
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 20 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 25 <222> (1)...(417)
 <223> n = A,T,C or G

<400> 431
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 taaatcattt tatacaataa acacgttctg ataagaagac aaacaaggcg gacaaacacc 120
 cttagaagat ggattgaagc aaatatagat caagtctata ttgtgcctac aaaatgagaa 180
 atctaagttt cgagtatgat caagtatctt agcttttaggc tagagaaacc aatctctttt 240
 attcttttgc gtgtggtttg atgtatagta tggancctaa aannnnctac gtctaaactg 300
 aagatccagc caaacgtctt cttgatgcat ttgaagtcgc gacttgaccc aatttgtctg 360
 35 actcttttcga gtcacccgct actattctct ctctcactgg tgtgtaaatgc ctccagcc 417

<210> 432
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 <212> DNA
 40 <213> Arabidopsis thaliana

<400> 432
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 ggtacatctg cataggccac acggttaggg aacaagaagt cgctgagaag ctgaaaagtc 120
 45 tttatctaaa ttacaactac ccaaagagat acatcgaagc ggatggaaaa gtgaagggtga 180
 gttcagagaa gttgcagaag ttgggttgga cttaccggcc gttggaggaa acacttgttg 240
 attctgttga gagctaccgc aaagctaagc ttgtggactg aaaactggga acgaatagca 300
 tatgagtgtt ttgggtccat gtgttaagtg ttcctatctg cacacgctct ttcactcttt 360
 actcaagaat aagagttgtg caacatattt tccatcaaaa aaaaaaaaaa aaaaaaa 417

50 <210> 433
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 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 433
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 tgggacaaat gcatcacaag cgcaccggga agtaagttca gctcaagcga gagttcttgc 120
 ctcactcatt gcgctcaacg ctacatggat atgagtatga tcatcatgaa acgctttaat 180
 60 tcgcagtaag attgattgga gatatcatatc ttgttgggat tttaatttat cctttttttg 240

5 tttctcttgg caagtgttga aatccctttt attactctag tgatcttgca agagtattct 300
 cggataagtg ttttaggtgt ttctttatgg ttatgtgatt gagattgtta ttgatggcta 360
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 <210> 434
 10 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

 <400> 434
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 aaatgatagt gtgacgaagc gagacgacat cgtttccagg tctcaagctt ctgaccgaat 180
 cagggagaac aatccttttag ccatatatag aatcgacaaa ttgggttgat ttttccgact 240
 ttgacttagc cctcaagata acctttgttt tgcaggtaag agatgatgtt ctcagccatc 300
 20 tgacgtggcg aacacgactc gtcgtctcct gtgtgtttca gcactacctc gcaattcact 360
 ggtgcctcgt aagggtcgtc gattccagtg aagcctttga ttttgcctgc acgtgca 417

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 25 <212> DNA
 <213> Arabidopsis thaliana

 <400> 435
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 cgagaacttt gattcgcttc gctgattccg gcaacaaaga cgatgtttgt tcattaaggg 120
 tttggcatcg aagaagttca tgaaaggctg attactggca gctctagcgc gattttttaa 180
 tcagatcatc ccgccatgac ctcacaagct tgtctcttca gaatcagctc aaagcagaca 240
 ggaaagaggc gttaaagatt tgggtcaagc tgcgactctg tgatcacaac tccacaccaa 300
 gtatcctctt acatcgcaact cgtcgctcct gcactcgtag tttctttgaa tagccaatga 360
 35 agagtaaagt tcaattatgt gtgtcgtgtt tagtaatttg acttgaaaaa agagttt 417

 <210> 436
 <211> 417
 <212> DNA
 40 <213> Arabidopsis thaliana

 <220>
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 45 <223> n = A,T,C or G

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 ccctctatct ctcaaaatat tacaaaacta ccaaactaat taattcttca agccgaacca 180
 aacaccaaac cactcacgct aggagttaca tgctcctgca tcgtggactg gtgatgacgg 240
 tgctctcctt cgtacgtcac aatcaacatc gttgaatcat ccaaagctct ttccacgtgt 300
 ttctctgctg gacatcctct aaatgtacta cacttgtaat aaccccgtag atgtggtgag 360
 cntttgatcg gtttttgtcc atactttctc catgaatatt cgtctggtgg tatatcg 417

 55 <210> 437
 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

 60

5 <400> 437
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ttgaaacata cagagaactc ttgctttgtc ttacaaaactt atacaaaaag tcaagagaaa 120
ccaaaacaga tcaaagaaac ccaaaagtaa aaagatttaa acaacaaaag aggtaataaa 180
taaataaaga acactaaacc aattgtctgg agataaaacc accaccgtga accaaaacca 240
10 atgtacagta acacaatgtg aaaaccacac aagactgata aacttcacca gcgagttgaa 300
ctaatatgag gttgttcaat gatgaactca gtaactgaat ggtgtctgtg ggtaaaggcg 360
gatcgttgga gcttccggaa ctttctggaa atgtcgggtga ttgatctgaa gatgagc 417

<210> 438
15 <211> 417
<212> DNA
<213> Arabidopsis thaliana

<220>
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<222> (1)...(417)
<223> n = A,T,C or G

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ccctttgaaa tagaatagat ccatacactc ttactttgac aaaatagaat aggcacacac 180
ttatttgact atgattttgt taattttgaa atcacattta tagtcttcaa ttatgttgta 240
aacaacctaa actttcacaa tttcgtccaa caatattttg aaattctcta aagagcttcc 300
30 tttcatggag aaatcttctt ggagtttttc ttttaagcttc ttggcattag nnttcatcgt 360
cttaccatca tcatgaacaa aaacatcatt caaacacttc tcaaatcctt ctttctgt 417

<210> 439
35 <211> 417
<212> DNA
<213> Arabidopsis thaliana

<220>
40 <221> misc_feature
<222> (1)...(417)
<223> n = A,T,C or G

<400> 439
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tttttatcta aatttaagct gctaaataat catcaaaatg taatttaa atacaataatgt 120
gtttattcaa caattatata tacacaaata tatatcaacc ctaaccagaa tgtgataactt 180
gtttaccaag ccatcaaate taccgtgctt taggttcatt gatctccgaa aatactcccc 240
aactcgaacc actcctctca tcaccaacaa ctagaacaga gtcacgtggtc gtggtcgatt 300
tcccaacgtg tctgttagtc ctactaaaca agtcattctt tccgtccgtg gtcgtaccaa 360
50 cttcaccact tggcattaga tccagagact ccacgttggtc attcttcttc ttagcag 417

<210> 440
55 <211> 417
<212> DNA
<213> Arabidopsis thaliana

<220>
60 <221> misc_feature
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<223> n = A,T,C or G

5

<400> 440

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tcactctttt	attttttacag	tataattcat	atgtacatta	attgatctca	aacattgctt	180
10	tgtgtaggac	agttttgggt	actttgggtc	tatactatta	gagtgtaaaa	240
ctgatggaac	ttcacgagct	ctttggctct	caagtggcat	atactgtgac	atgatcgtca	300
taatctcaga	gtccatgtaa	gacctgaacc	gggtatttga	gaatatataa	ccagctaaac	360
cggctactgc	gacaatagct	agtatcaaga	gtgtgagcca	ccatgctgtt	ttggatc	417

15

<210> 441

<211> 417

<212> DNA

<213> Arabidopsis thaliana

20

<400> 441

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caacatgaaa	atctagtaat	acatgtaaa	aaagaagggt	aatgatattc	cgcattgttc	120
tagataggac	tcgaatcttt	ctttaccaca	agaggggttt	acaatgatac	aatgatcatg	180
tcctagaaga	gaaggatcag	atgggttggt	ctttgggaac	gatctgatcc	ttgatccaca	240
25	tgtagatagg	gattaacaca	aaccaggcag	ctgctagagt	tcccaggagg	300
agaaggagaa	gggttggtt	acaggcttct	ctacgtcctc	ttcctttgga	ccaagctgga	360
gaggagagtc	accggaggca	ggtttaacac	cagtgcacaga	acatcccatg	ataaggc	417

<210> 442

30

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<400> 442

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tcttcaaaca	ctggacagga	tcaagctcta	ccatctgcga	gctccatctg	ttcgtgtagc	180	
aatgtaattt	ctcagagaag	gagactgggt	aagaccatct	ggtgcaactg	tgggtgtctg	240	
agttccattc	ttctgcttca	tccttctgcg	tgctatgtaa	cctctgacct	aaggagtaac	300	
40	atcctcgttg	gtcttaata	tgatgaagaa	gatgatgcgg	tagatgataa	tcattgctaag	360
aatcacactg	aggttaatcc	atcttgatcg	atgcaagtcg	atctgaaaga	cgttctc	417	

<210> 443

<211> 417

45

<212> DNA

<213> Arabidopsis thaliana

<400> 443

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50	atatcgacat	agctaattcc	gtcgagcctt	tacacatctc	tgagattgcc	120
atatcaacct	tcttcactac	gatctctatg	gcaagtataa	agctaagggt	ttgttgctg	180
cgtttgatga	gcttcaagga	caagaagatg	gatactatgt	tggtgttgga	gggattactc	240
ctactcctct	tggaagaagg	aagagtacta	ccactgttgg	actttgcca	gccttaggcg	300
cttacctcga	taagaagggt	gttacttgct	ttcgcaaac	gtcacaagga	cccaccttg	360
55	gaatcaaagg	aggtgcagct	ggtggtgggt	atagtcaggt	gattcctatg	417

<210> 444

<211> 417

<212> DNA

60

<213> Arabidopsis thaliana

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 tagccgtcta atcatcgccg acgccggagc tattccgtac ctccgccaga ctctttactc 120
 gtcgtcacac tcttctcagg aaaacgccgc cgcgactctc ctcaacctct caatcacctc 180
 10 tcgcaaccc ctaatgtctt cacgcggctt actcgacgcg ctttctcacg cgcttcgtca 240
 tcacgacacc accacttccc ccgccgcggt tcaatcctcc gccgctacga tttatagcct 300
 tttgatagcc gaagagtctt accgacctat catcggatct aagcgcgata tcatcttctc 360
 cctcattcac atcattagat atccagattc gcacccctga tcgatcaaag actcgct 417

15
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 <211> 417
 <212> DNA
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20
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 tgccgccatt gatgccgcta aaaaagctgg acagatcatt cgtaaagggt tttacgagac 120
 taaacatgtt gaacacaaaa gccagggtga tttgggtgaca gagactgata aaggatgtga 180
 agaacttggt tttaatcctc tcaagcagct ctttcccaat cacaagttca taggagaaga 240
 25 aactacagct gcatttggtg tgacagaact aactgacgaa ccaacttgga ttgttgatcc 300
 tcttgatgga acaaccaatt tcgttcacgg gttccctttc gtgtgtgttt ccattggact 360
 tacgattggg aaagtcctcg ttgttgaggt tgtttataat cctattatgg aagagct 417

30
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 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

35
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 agttactcag caatggcgag agacttcaag cttatcttct ccatttcaat tctgcttctg 120
 cttctagact gttgttacgg tggcaaggct ggagtttgtt acggaagaag cgccgacgat 180
 cttccaacac cgtcaaaaagt tgttcaattg attcaacagc acaacatcaa atacgttaga 240
 atctacgatt acaattctca agtctctcaa gcatttgga acacaagcat tgagctaattg 300
 40 attggagttc caaactctga tcttaacgct ttctctcaat cccaatcaaa tgtggacacc 360
 tggcttaaga acagcgtctt accatactat ccaacgacca agatcactta cattacc 417

45
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 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

50
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 tatgttctat ctacaagaga agattataaa gcgccattag tagcagactc ttttcttaaat 180
 aggacttgga ggttgataga ccatgggtcta tctctaccgg ccattctacc aaggatccaa 240
 tttataagag ctactgccac cagatttctc tgggtgtatat tcaaaattct gttattggag 300
 ttcaaaaaga ctgatctctc tcattatggt ttgtctgaag atacactgat acaagcatgt 360
 55 ggaccgggta atgctgctcg gtatcttgaa tcaaaactac gagaatggag tgatgat 417

60
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 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana

5

<400> 448

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ataagatgat	gttcataaat	ctagcaaggg	atagtatcat	aaaagatgat	gttcaaataa	120
cgctggacaa	gggacttagt	ggctaagcc	cttctttgct	ttcaatgact	cgagtgcctt	180
10 gtttcgcaac	tcaatttcaa	gcctctttgg	atcagattcc	tccccttttt	taatcttagg	240
acgggcctca	acttcacctt	ctgaagtatc	agaaagctct	tgtttcttat	gcttctcctt	300
tccaccacga	cggttcttcc	ttttaacgatg	tctctctctt	cgcctacgtt	tcttctcctc	360
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15 <210> 449

<211> 416

<212> DNA

<213> Arabidopsis thaliana

20 <400> 449

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aaggcaggaa	gatataacac	cgccaagatt	ggatcgatct	ccacaatcag	gacatggggt	120
gtctccatga	ttatgagatg	aactaacaat	gatgttgtcc	aagaaagttc	cagttccagt	180
ctcttgacca	tcaccacgag	taaaatgggt	gacttggtcca	tcacctacat	agattccgtg	240
25 atgagcgtaa	atgtaggctt	gacgccatga	atagatgtga	tcgcctgggt	tcacatcgtc	300
tctggagatt	ttattggaaa	ggaatcccat	cttctccacc	gacgaatgga	gaaccagaaa	360
ttaggggattg	cgtcgtcaga	gagagaaaaga	tcttattttt	tgtacctcgg	ccgcga	416

<210> 450

30 <211> 416

<212> DNA

<213> Arabidopsis thaliana

<400> 450

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cgcaaaagct	ctcaccgggt	atctctgcgg	cagcaccgcc	attatcgccg	atgctgctca	120
ttccggtttcc	gatgtgggtc	taagtgggtg	tgctctagt	tcttacagag	ctgcaaagt	180
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catctctgcc	atgcttttgg	ctactggctc	tggtattgcc	tggcatgctt	tagacctttt	300
40 atctattgca	ctgtccgcag	ctcctgaggt	aattcatagt	ggacatcatc	acggcattga	360
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<210> 451

<211> 416

45 <212> DNA

<213> Arabidopsis thaliana

<400> 451

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50 ggcgtcatct	tgtgctcggt	gtgatctctc	aaatcattaa	gatacaattg	ctagcagacc	120
taaacttgaa	gaaaactccc	cagctgggtg	agttggctcg	tgatagcaag	gatgtggaag	180
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aaactgaata	caagaaaacc	gtcacaaact	tctcttctga	tgtaaggat	gcggaagctt	300
acactaatct	attaaatgtc	ctggcaccag	agcacaagaa	tccatcacat	ttagcagtta	360
55 aaagctcatt	tgagagagca	aaacttggtc	tcgaacatgc	agacaaaatg	ggatgt	416

<210> 452

<211> 416

<212> DNA

60 <213> Arabidopsis thaliana

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 <223> n = A,T,C or G

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 gagatccctg gctcgtggct cagatgcaaa gcttgagat tctccatctc ttctctaata 180
 15 acttaacagg aaaaattcca gaaggagtaa cttctttgcc acgtctaaaa gttcttcagc 240
 tttgggtcaaa cagattttcc ggtggaattc cggcaaactc tgggaaacat aacaatctca 300
 ctgttcttga tctttctacc aacaatctca cgggaaaact cctgacact ctttgtgatt 360
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 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana

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 aaaagaaggc aaaagcatca ttgcagaata tctacagcga agaggataca aagatccatc 240
 30 taaccatgta gcagccagtt caggtccaga actgcaaagt tatgttaagc caaaagtgga 300
 taatgggtgct tctagtggaa ccaagaaacc gtttaaaaca ccaaaagagg gaacatcttc 360
 taatcagcaa gctggaactg ggaaattaac agctcccgcc cagcaagtta atccta 416

35
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 <212> DNA
 <213> Arabidopsis thaliana

40
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 <222> (1)...(416)
 <223> n = A,T,C or G

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 tggaaaagct caaggaaatg gatcctataa atttcgaaac tgttctgtta ttgatgagaa 180
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 cagaggaaaag tctctttatc atatgacaac gtgacgaccg agtcccaag cgttnnntcc 300
 50 cttgtcaaga nctcaacnng cgacaaatca gcataacaaa aatatgagcc atcagctagc 360
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55
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 <211> 416
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60
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5 tgcaagtaaa acataacatt ttcagggtgac tttttatgat ttgttccttt tcaagaatca 180
gtgtccattg gctacagatc catcttcacc tttcttgcca tagaatctcc ggtacaagga 240
atcaacctct ttcagataat aagttcccgg tgccaaaaga tctataatac cctccttggg 300
tgtcacaaag tccttttgctc catactatgt tccattagct tcattgtctc cacaacttc 360
tcagggtgcat actcatgtct agctttcaat ttaccgcca catccattac agatgc 416

10 <210> 456
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<212> DNA
<213> Arabidopsis thaliana

15 <400> 456
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gttcgaccag gcacattgta tataatcgtc ggtcccatat gaagaacaga ctggaaatgt 180
20 gcaatcagtc cctcaataga agtcttgcca tagtaagggt ttatatgaag agcagcatgc 240
attccaaccg cgaatccttg ttcagtcgcg tggattgctt ctctagtcga attgcttcca 300
gtgtttccaa tgactttgat gcttccgcca aaacagttaa cggtatggcc tataagcata 360
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25 <210> 457
<211> 416
<212> DNA
<213> Arabidopsis thaliana

30 <400> 457
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tgaacgtaca gaaacagaag tttccgttga gctttaagac gtttgaggaa gctattcctc 180
cacagtatgc gattaaggct cttgatgagt tgactgatgg aaaagccatt ataagtactg 240
35 gtgtcgggca acatcaaag tgggcggcgc agttctacaa ttacaagaag ccaaggcagt 300
ggctatcatc aggaggcctt ggagctatgg gttttggact tcctgctgcc attggagcgt 360
ctgttgctaa ccctgatgca atagtgttg atattgacgg agatggaagc ttata 416

40 <210> 458
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<212> DNA
<213> Arabidopsis thaliana

45 <400> 458
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tgcgattgca ttataaggct gcaattgaac agatcgagca agttcaaatt gacgtaacat 180
aaaacctatt aatgcgaaag cgccgtggag agcaacaaaa gcccatagac cacctaattg 240
acaccaacga gtaaaatctc cttgtgcttc aggacccac agtaacaaca aagaatgcgc 300
50 taaactatta gcaggagtag aaactgcagc gggttaaaaa ttgcaacctt ctaaatagga 360
actggccaat ccatgagtat accatgaagt tacaaagggt gtacctgcc gggcgg 416

55 <210> 459
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<212> DNA
<213> Arabidopsis thaliana

60 <400> 459
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tacagattaa gctgttgctg cttaaagtac aaatcttatt gcatcatcag gttcaagtac 120

5 acatcttatt tcttcataac caaagaccac ctgttcgtac aaggtgggtt ggtctcatac 180
actttactgc ttcgtgcttg cttacagtta catgaatttt ttcttgaaaa cctccacaat 240
ctccttagga tccattttcg tctgtgcata gccatcgctc ttgttaattt cctcaatcca 300
tgctgatagt ttgggacggt cggcagtaat gtcgcactta aataattcat tgagtacagt 360
ttggaacctt tcaatgaacg ggatataggc gatatcaacc aagcttaact gaccga 416

10 <210> 460
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<212> DNA
<213> *Arabidopsis thaliana*

15 <400> 460
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ttgttttagt tctcttttaa gtccatcgat aaatggagca cggaattttt ggggtgcaagg 180
20 ttgagacttt aaggtattag tgtagtaaca tttggaattt tcttaacttg caatgtggcc 240
tcacaaatag agccggtcct gagaaatcag gtggccaaac aaaattattt tatttttaga 300
agtgtttaag atatattttt tttaaagaga gttaatgtta aagtttcaga aatttaggac 360
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25 <210> 461
<211> 416
<212> DNA
<213> *Arabidopsis thaliana*

30 <400> 461
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gtcatttcgc aaggacgacg tacaaaagat tcggaacctt ttctaaagtt tttttatata 180
tccaagaagc aaccagcttg aacgtggcct tcatatttat catgtgtttc cagttttaac 240
35 catcgagaat tgctcatac ccaattatac cctacacttg gttcgcccga ccgagccgaa 300
ccgatcacia ccagggttcc agacctcctt atcgccacgt aagatacatt gcacacgtca 360
gcaggtagat tcccaacttt ataccacgtg tcatctttca tcatcatcag atcacg 416

40 <210> 462
<211> 416
<212> DNA
<213> *Arabidopsis thaliana*

45 <400> 462
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accaccacca tgctccggct ccagcaccag gaccgcgcat tagctcaacc gttgtttctg 180
ccaccaatat gttcaccatc ttggctattg ctgccgtggc tctcgtcgtt ggttccaacc 240
actaagttgg ttattacatt cgtcgttttg tttcagtttc tatgaaattg ttctcttgac 300
50 ttttaataata ttttgaattt ttctcatttg tttttaactc tctctatggt gatctgattt 360
cttgaataaaa ataaaagttt attgaacgtg tgtttttaat tacaaaaaaa aaaaaa 416

55 <210> 463
<211> 416
<212> DNA
<213> *Arabidopsis thaliana*

60 <220>
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5 <223> n = A,T,C or G

<400> 463

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10 taggagtggt tcaactatct tcttcaattc ggggttttttag tttctgagat ctgtttttga      180
agaatctgat ctgagtttga ggaagtttga ctaaatagat cgaagaagat gtttaagcag      240
atacttgnnn ngcttcctaa gaaaacttct gctaagtttt gggataatgg tgaatcccaa      300
actctagata acaacaacaa tcaaggagga ggtgatgaag ttttaagcca gagaacgtca      360
tcaaattggag atactagttt ggattgtgtt tcttcttttg atgtattgcc aagggtt      416
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15

<210> 464

<211> 416

<212> DNA

<213> Arabidopsis thaliana

20

<400> 464

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ggattctctc tctattctct gttgggtgtaa tcatgttttc aatcttcttt ctcttctctg      180
25 ttcttatcgg tctgcctct gttcttatcc tccctctcct cctctcttct ctccatcgtc      240
accaccgacg tcgtcgtcgt aatcgccgac aagaatctct agatgggtta tcttcaagat      300
tcgtgaaaaa gcttcctcaa ttcaaattct ccgaacctag cacatacaca cggtagcaga      360
gcgattgtgt ggtttgtttt gatggattca gacaaggaca atggtgtcgg aatctt      416
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30

<210> 465

<211> 416

<212> DNA

<213> Arabidopsis thaliana

35

<400> 465

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tagtaagcat ttatgtataa tgcattccatc aagtagtaga tgatacaatg gcgtaaagag      180
ggaataaacg gtgaatcacc ataccggttg attcagcgac attgggtttga tcttctatat      240
40 attcctccgg taatctccaa tcataccgat gcactaagtt agccaaagtc acctcaatca      300
agatcacagc gaatgatatt gctggacaaa tccttctccc tgctccaaat ggaatcagct      360
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45

<210> 466

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<400> 466

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atatcagctt cagttccctt tagctgggaa gaagagcctg gcaagcccaa gcaacactct      180
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gaaactcaca agtccttaga gctaccacca aggcttcaact tacttgaaaa agatggagga      300
55 tcagtaacca aacttcactc gcctataaca gtctttgatg gaccttatag catgacgaca      360
tcaaaaagga tggattcacc ttcttttagg atgatggtga aaggtagtgc tgattg      416
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60

<210> 467

<211> 416

<212> DNA

5 <213> Arabidopsis thaliana

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 10 <223> n = A,T,C or G

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 15 tcaaagagtt aaattagtag ttgtcggtag tggcgccgct ggcaaaacat ctctgttgat 180
 ttcattcgct gaaaacaaat tccctgagga ttannnnnct acagtcttcg aaaactacac 240
 ttttaaaatc actcgcgcgc atggtacact tgttctgttg catttggtgg atacagccgg 300
 tcaagaggac tacnaccgat tgagaccttt gagttatcct ggcgctgatg tcatcctgct 360
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20 <210> 468
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25 <400> 468
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 ccgagagtac caaatcttat tggagggtct tttggtgagt ctcaatcatc ttcgtttatc 180
 30 gatgttataa accctgctac acaagagggt gtatctaaag ttccattgac tactaatgaa 240
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 attactaccg ggcagcgtgt tatgctaaag tttcaagagc ttatacgcaa gaatatggat 360
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35 <210> 469
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 <213> Arabidopsis thaliana

40 <400> 469
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 cgattcctaa ggaagcggcg tatcagatca tcaacgacga gctgatgctt gacgggaatc 180
 cacggttgaa cttagcctcc tttgtgacga catggatgga gcctgagtgt gataaactca 240
 45 tcatgtcctc catcaacaag aactatgttg acatggacga gtaccccgtc accaccgaac 300
 ttcagaaccg atgtgtgaac atgattgcac atctattcaa tgcaccgtta gaagaggcgg 360
 agaccgccgt cggagtagga accgttggat catcggaggg cataatgttg gccggt 416

50 <210> 470
 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 470
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 aagccatgga ggtcgatgaa aaaccaactg aagattacaa tgacattgga ggactagaga 180
 agcagatcca agagcttgta gaggaattg tgcttcccat gacgcacaag gaacgttttg 240
 agaagctggg tggtcgtcca ccaaaggagg tgctcttgta tgggtcccca gggactggta 300

5 aaactttaat ggctcgtgcc tgcgcagcac agaccaatgc caccttcctt aaattggcag 360
gccctcaatt ggtccagatg ttcattggag acggagcaaa gcttgtccgt gatgcc 416

<210> 471
<211> 416
10 <212> DNA
<213> Arabidopsis thaliana

<400> 471
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ttgccacagc ccgttccagc tcaaccacca tcttccgaat tacctccacc ggatcctcgc 180
actcaagaaa tgataaatga gaaactgaag aaggcagaag atcttggtga acaaggaatg 240
gttgatgaag cccagaaagc cctggaagag gctgaagctc ttaagaagct tacagttaga 300
cgagaacctc cagcagattc aacgaagtac accgctgttg atgtgcgcac cacagaccaa 360
20 aagttgcgtc tatgtgacat atgtggagca ttcttgagcg tctatgacag tgatcg 416

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<211> 416
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25 <213> Arabidopsis thaliana

<400> 472
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agctggacaa ggaatggcgt cagcgtcaat ttgaagttga tagcttcaga aaggagttca 180
acaagctcaa taagcaagtg gcgcagctca aaattaaana agaagatgcg agtgagatta 240
ttcaacaaac tgagaaaaac aaacaagatt ctactgcaaa ggaggctgaa gttcgtgaag 300
cttatgctgc tttgaaagcc aagttggagc aagttggtaa tttgggtccat gattctgttc 360
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<210> 473
<211> 415
<212> DNA
35 <213> Arabidopsis thaliana

<400> 473
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actggccgtg taaccaagcc aacacgtaga aggtccagag cctcacgtag aacaccaaca 180
45 acgcttctca acaccgacac ttccaacttc cgtgccatgg ttcagcaata cactggcggg 240
ccatccgcta tggctttcgg gtccggtaat actactcttg ctttttagcct cacttcatcg 300
tcggatccat cagctggatc ttctcaacaa gtccttggc aatataattt ccagcctcac 360
gcgcgcgttc agccaccgca acggccttac atgttttctt tgaacaacgt gaatc 415

<210> 474
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50 <213> Arabidopsis thaliana

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gtatatagag ataacaaatt aaactataag agttacttca ttcggttgag atattaccat 180
attgccaaag attaaactcg atcgatttga ggtccgtttc gttggaggca ctacttgagc 240
60 tctctgcctg gtctcgggtg tcattgtact tcccgttgta ttggtatact tcaatatctc 300

5 cccatggagt aggtgtgata tcatccgtta gatcgaacca tcttggagtg aacttttgtc 360
 cctttgtctc tctgggtcctc ttttcggccc tttgtctctc ctcaaggctg tgttt 415

<210> 475
 <211> 415
 10 <212> DNA
 <213> Arabidopsis thaliana

<400> 475
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 tctctctctc caaaacatctt ggtccatacg ataaagcaag aagaagaatt aagaattaga 180
 gcaagaagaa gaagaagtag aggatgaagc atgaaatgat gaacatcaag ctaagatgca 240
 taaccatctt ctttcttctt tttgctttgc ttcttggaaa ttatgtagct caagcctcaa 300
 gacctcgttc tatcgaaaat acgggtctccc ttctctcaca agtacatctc ctgaattcaa 360
 20 ggaggaggca tatgataggg tcgacagcac caacttgtag gtacaacgag tgcag 415

<210> 476
 <211> 415
 <212> DNA
 25 <213> Arabidopsis thaliana

<220>
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 <222> (1)...(415)
 30 <223> n = A,T,C or G

<400> 476
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 cattggagga tctttttact caaatcttta cccacaattt taccagttct cttgtccaca 180
 agctgatgag attgttatga cggtgctcga aaaagccata gctaaagaac caagaatggc 240
 agcatcttta ctcnnncttc acttccacga ctgcttcggt cagggctgtg atgcatcaat 300
 cttgttggat gatagtgcaa ccatannnag tgaaaagaat gctggaccaa acaagaactc 360
 40 cgtagagggg tttcaagtaa tcgacgagat caaagccaaa cttgagcaag cttgt 415

<210> 477
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 <213> Arabidopsis thaliana

45 <400> 477
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 tcagtagctt aatcaaggctc ggtcgtaccg agcctgttat ggtccttcgt gtcgatagag 360
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55 <210> 478
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60 <400> 478

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gccctgcaat gcatcaggga gaagatggat gtgattgatc tggaagatga ctccatagac 120
gctgaaatcc tcaattccat ggcagtcact aatgaacatt tccacactgc tctcgggaac 180
agcaacccat ctgcacttcg tgaaactggt gtggagggtc ccaacgtctc ttggaatgat 240
attggagggtc ttgagaatgt caagagagag ctccaggaga ctgttcaata cccagtcgag 300
10 caccagaga agtttgagaa attcgggatg tctccatcaa agggagtcct tttctacggg 360
cctcctggat gtgggaaaac ccttttggcc aaagctattg ccaacgagtg ccaag 415

<210> 479
<211> 415
15 <212> DNA
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<400> 479
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ccaccaggat ggggtctatac gaagtgccta agaacaaatg gactgatcct gagtcaggga 360
25 agttgaatct gtagtaggaag atcgggtgcag ggctagtcgc tgggtggaatc ggagc 415

<210> 480
<211> 415
<212> DNA
30 <213> Arabidopsis thaliana

<400> 480
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caaggtcgac caccatttgc caaatgtgtg aacatggccg gtgaaatgcc agaaactggc 180
attaagact gtaatagtaa tgcttcgtcg cttttgggtc taattatgat caagtgtcgt 240
gtaactttgt atgtttctcg tattagaata aacgggtcca ataaattgga ttagattggc 300
cattattatt gatttgccaa tgaccaaaaa gtgaaaacat gagagggtgag ttatatataa 360
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40 <210> 481
<211> 415
<212> DNA
<213> Arabidopsis thaliana

45 <400> 481
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ttgattttgc atttgcggat gctgacaaat caagctacgt caacttccat gagaggcttc 180
50 taaaattggg gaaggttggg ggaatcattg cgttcgacaa cacttgtgg tttgggtttg 240
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aattcaataa gaaattggct ttggatcccc gagtcgaggt ctctcagatt tccattggag 360
atggtatcac gctctgtaga cgtcttgttt gatcaaaaaga ctacttgaag agtac 415

55 <210> 482
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<212> DNA
<213> Arabidopsis thaliana

60 <400> 482

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agataagaaa aagaagccca gaggtcgtgc tcacaagcgt ctgcagcaca accgtcgttt 180
tgtcaccgca gttgttggtt tcggaaaagaa gagaggaccc aactcttctg agaaatagaa 240
gaagtttagag agaaagatgt tgtcgtgaaa cttctcaagg tcattttgtaa ctttttgttt 300
10 tctttggcac cgaactatta tgttttgatt ctatgctatg aaatactgtt ttttactta 360
tgattttggt caattaaaca taagatatga tttttgcaa aaaaaaaaaa aaaaa 415

<210> 483
<211> 415
15 <212> DNA
<213> Arabidopsis thaliana

<400> 483
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caacccatga gagaaatata aatgagccaa gtaaataaaa ttgaagaaga gaaacaaaaa 120
aacacactct tcaaaccaac aacaaattga ctgaccacaa taaaacaaaa ctagaacaag 180
tcgaacttct tcttaagcag atcttgcttc caacgtggta agttgttgaa tgcttctttc 240
tcgatcccaa acacactttg gaactcttcc tcagatagat aagcctctct gcgtttgaaa 300
tcgattccag tcaactgggt ctcagattta gctctcagct gttcataggt gaaagttgct 360
25 ccacttggtt gtatttcaga atcaccttgc tcttctgttt cctgctttgc ttctg 415

<210> 484
<211> 415
<212> DNA
30 <213> Arabidopsis thaliana

<400> 484
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ttacaaacta caaagagaga gagagaatgg taataagaga agaaaaacag tacaagagaa 180
tcatcatctt gacaaatctt caaatatcta aatcctccaa ctgaatgttg ctcttaagag 240
gcacataatc tccaagatac ccaccaagtt gatcatacaa agcgggtctta tcaatagtct 300
gatgatgata actcttacaa acatagtaaa acacactctg aaccaacaaa cccacaagat 360
taaccatcac aagaacacca actaacaatc caccaaccaa agtcctagta aaagt 415

40 <210> 485
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<213> Arabidopsis thaliana

45 <400> 485
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50 cctacagatt atttggtgag acaagaaagg cgtaaccgg gaaaagtttt gttcaagcgt 240
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gattggcacg gagtctttgt tttacatatg aagttcttat gtcttcagcg atcttgttgg 360
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60 <400> 486

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tggccgacgc attatatgat gtatttttgcg acaaagaagg cggacttgca aaggcatgtt 180
tcgcatactt agcaaaaggc ggcttcttta gccgaggccc tgtgcagcta ctgagcgggtg 240
taagcagggtc acaaaccctta ttgctcttcc atttcttcag cgttgactg tatgctgtgt 300
10 actacatgct gtccccattc ccaactccat cacgcatata cacatgcgtc atgtcatttc 360
gcaaagcagt aggcattcatc ataccacgcg tggcacgcga gaacgactca tgggtg 415

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cctaaagcca aaatcaaaaa tacaagtagt ctgtgtgttaa actcttatta ttagaaaagc 180
aacaaaagat aactagagag tttcagccct ctcttcaaaa actgataagg ctctcaattc 240
ttctactcca ctacttcaat cagggtgggc tcatagtcag agggagccac aaatccatgg 300
aggttcatca ctgttgacgc tacatttgca agccccggtg tttccagatc tttacggaat 360
25 ctactcctt gagccaaacc aggacctcca atagcaattg gcactggcct gagtg 415

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30 <213> Arabidopsis thaliana

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atcaagaacg gttttgggtc aaccgggttt gaaaatgtac atgtggcttt ggaattacct 180
ggtgcttgag tttccaagag tgagtccaag atcatctgaa ccaactctct cgtgtatcct 240
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agccacggct tcagacattg gaacatctgc tgtctgggtc gcaccaggag gaatagcagg 360
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40 <213> Arabidopsis thaliana

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ctcatacacg atggtgggtga cgctgctctg actctgaatc tgactcggtc cagccctcat 180
50 ccctgcccc tgtccaactc gccacaacca ccgctggcct cactcttcc tctccatcc 240
tctccttcc ctctccctc tccctccacg gatgacgtcg catgccgtaa taggactgtg 300
tggagtagga ctgagtggag caggaagaag gcttagcatg gaaatgctcg atttctgcac 360
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60 <400> 490

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aagtgcagaa gcagctctta agtacaatgt tgctatcaaa tgtgccacta taactcctga 180
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cagaaacatt ctagatggaa ccgtattccg tgaacctatt atgtgcagca atatcccccg 300
10 gcttggtcct gggtgggaaa agcctatatg cattggtaga catgcctttg gtgaccagta 360
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tgagccggag ccagttttcg tctccgtcaa gacttttgcg ccagccaccg tcgctaattt 180
aggaccaggg tttgatttct taggatgcgc cgtcgatggg ctggagacc atgtgactct 240
ccgtgtagat ccctctgtac gagccggtga ggtctcaatc tcggagatca ccggaacgac 300
aacaaaactc agcacaaatc ctctccggaa ctgcgcggga atcgctgcta ttgctacaat 360
25 gaagatgtta gggatcagat cggttggttt atcattagat ttgcataaag gtctt 415

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30 <212> DNA
<213> Arabidopsis thaliana

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atgggttttc cgatcttaaa atccgtactc acttgaaacg actcaacaag ccagctctca 180
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cttttgctca tcctctgctc attaatcaca ctgtccagat gtggccaagt ttgaaccag 300
aaagtgtatt tagtgagagt aaagtttcat caaaaaccaa gaatcagcag tctaattgcta 360
40 tacatcagct ttggcatgtg aatgggaaat gtccaaagaa cacaattccc atcag 415

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45 <212> DNA
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acaacaaaac cgttctcttc aaagactcaa tctatcacia acctaacaac cttcacctcc 180
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60 <400> 494

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gatgttgact gtaccggacg agaccggtcg acctcatttc gcggctaag acattgtgcc 180
gttttacctt gaacattgtc ccaagatatt tccccagccc acaggcgtgc ttgctctgtt 240
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10 tctgagtaag cttcttgagg agacaagact tcaccagacc ctcacaaaca ttgttatacc 360
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tcaaagaaaa atccaagctt atcgaggcag ctcaggggagg gtcggtttcta gaagagctta 180
ataagaaatg gaatgagcac aacaaagcgt tagagatgat tcgagacatt ctcattgtata 240
tggataggac ttatattgag agcaccaaaa agactcatgt tcatccgatg gggcttaact 300
tgtggaggga taatgttgtg catttcacta agatacatat aaggcttcta aacactcttc 360
25 ttgatctagt gcagaaggaa cggatagggtg aagttattga taggggggtg atgag 415

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30 <213> Arabidopsis thaliana

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tcactatttt ttgactaat gacttttcaa cttttcttcc acgagctoga tgcattcgata 180
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atcctccttg aggttctcag cgatgctgca gctcacaaga gttcgaagag gcagaagcca 300
ttccttatac gctttctcca gattcttctt tgacaaaata tcaactgccg ctttgcttct 360
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<213> Arabidopsis thaliana

45 <400> 497
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50 tggtcgggtg atcgagatgg cgagtacttc gttattgaat ccgaatcgct cttacgctcc 240
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agcttggtgt gatgtctctg aggagatatc tgtgaatata cagcgtgcaa ggactaaaat 360
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60 <400> 498

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atggggcgcg gcggcgcggt cctgtgacgc ttgtaaatca gttaccgccg ccgtgttctg 180
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10 agccgacgcc gccgctcttt gcgtcagttg tgatgccgat attcactctg ctaatcctct 360
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tggttgacgc acacaccaga gaacaccgaa tctcttaaac catattacat caatttctgc 180
tcactatgca gagagctaca aatctaagaa taaaaacaaa agtctcctt ttaagttaca 240
atcacaaccc aaaggaagaa atatcggtt ctcattgttg cggccacggt cagctagccg 300
caacaggatc ggttatcgga cttgcattta acagttgatg ctgcacagtt ttgctacctg 360
25 atacagagtt gttcttatca actcgagaga tcaggttctc tgttttcctt gttg 414

<210> 500
<211> 414
30 <212> DNA
<213> Arabidopsis thaliana

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ggaccggcgt tagagaaatg gtgtggacag aaatgtgaag ggagatncaa agaagcgggg 180
atgaaagatc ggtgtttgaa gtattgtggg atatgttgca aagactgnnn gtgtgttctt 240
tcaggcactt atgggaataa gcatgaatgt gcttgctatc gtgacaagct cagtagcaaa 300
ggcactccta aatgtccttg attctatttc tttccaacca aaaattttaa taaatgaata 360
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45 <212> DNA
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<400> 501
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cgagaagaag cttcttaagc ttacgaaatt tgtagtcttt gtagacataa ggcttaaaact 180
55 tgggaacgtt ctcacaccg gtaattagct ccggcaaaag tccgaagact tgatcaaggc 240
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gctccacact cttatacttc ccattgctca ttctcaagaa ttgatcgccg atgatgacga 360
tgatcccgga agtgggtatac tccgcgtcga tccattgggt atccggacgc gtgg 414

60 <210> 502

5 <211> 414
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 ctcttgagaa acatggagtt ttgcagaaga ttttgccttg tcttgctttg attgggactt 300
 20 gtatgggttat tggatgatggg gttctcacgc ctgctatttc agttttttct gcagtatctg 360
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 25 <212> DNA
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<400> 503
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 tacagtactc gaggttcatt gttaagctgc agttttaagc tcttaagctg cagccaccct 180
 tggccttccg tagctagctg ggccactgct gtgagtcaaa gtggtctcga gcgtgttgaa 240
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 taaacctctc aagactgagg ttcgtccgc gagagtgttg atttgcgcg ttcggtttgt 360
 35 tttgaactca acccactgga atcggttgct tgttgcgcg ttcaccaccg agaa 414

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 40 <213> Arabidopsis thaliana

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 ctttattgtc cattagcatt gttcttcttg agttcctcgt tctcctgacg cagcgcacgc 360
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 tacagtttcg gcggcgagtt aacaccaaac aaacacatcg acaaagacct ntacgtcttt 180
 gacttcaaca ctcaaacttg gtcaatcgct caacccaaag gagacgcccc aactgtatcc 240
 10 tgnnttaggcg tgcgcgatggt ggccgtggga actaagatct atatctttgg aggccgcgat 300
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 25 tgagtccgc aagtaccatg cttctgctat taaagttcct ggccctgaag tagaaaagtt 360
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 30 <212> DNA
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 aagaaccaa ccaaagtact gataattcca gacacaagaa ctcagtcttt tgagttaagc 240
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 55 catcatgtac aatgctaaaa gtaatgattg aggatcttaa caaaagaaat tgaattttct 180
 aacaaatcta gacaattgaa gcaagtgggt ttagtgagc cctagactca accaatgggg 240
 ttgtcttgtg tctagaatca tcttaactac atcttctaca aatgaatcaa aacaagaata 300
 gcaacaccct ttcacaggc tactaccact actgctactg ctgctgctgc caggtgtcat 360
 atgatggtga gtacacgtca ctggtggcgg aacaagatgg acttcactgc tctc 414

60

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 atattagcta atacttggtc actttctctg gaacaagctt gagatgctgc gacttggtgca 180
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 taggaaacac agtaacacac aatagcgtag agattatata ataaatgggc ttcaaaagat 180
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 45 tttgatccag gcaacaacct tctccctcgt gtccaagctc ttgagatggg tcgt 414

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 55 tctttcgtcg cttccgggta tatectcacc gccaccggac ggctgcttt cgcgcacgag 180
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 ttggcgatgg atgataaact tcttgttgat gccatagctg atggtggagc agaacctgct 360
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 15 aggttcgaac aaagtgatgc aggttgctct tggctgttct gcagaagatg aactccgttc 300
 tggatatctac aaagtctcca agctgcttcg tggtgatact ggacttcttg ttactgatat 360
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 20 <211> 414
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 30 tggttaggat ccaacagaga cataatccca acaaggtcag agtttgacag tcttatcaga 360
 gaaggatcat ccgagtggag aaatatgtgt gaaaacgagg aataccggga acgg 414

<210> 515
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 35 <212> DNA
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<400> 515
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ttccacatct	tacaaaaaca	cacctgtcca	caaaatcttc	cctggtcagt	attttctcgc	300
cggaagacaa	ggaggaggac	ggcgagatac	ggcggagggt	ggttattcac	tcagagactt	360
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<210> 545

<211> 413

<212> DNA

<213> Arabidopsis thaliana

20

<400> 545

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tttcagtagc	atgatgagta	tccaaagccg	gctttttcttc	ccataagtga	tgaaagcatc	180
atctgtccca	caggtgtttc	cgatccatca	gaccatccat	gcttctcaag	caactgttcc	240
25 agaaagttac	caaccacata	agaaatcccc	gacaccgata	cagcaattga	cccgtagtag	300
agaatgctct	tcaggtagct	gcctctcggg	tacctcacat	gagctttggc	tatggcgagc	360
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<212> DNA

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35

<220>

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<222> (1)...(413)

<223> n = A,T,C or G

40

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aataggactc	cggcttatgg	accannggagc	aaaagagatt	ttgcagaacc	tttctgagaa	180
acaggggaaa	aaaatgaact	cagttgaatc	tgcccaaaat	attcccagct	ttctcgagtt	240
tttcaaggat	caaataaaca	tggccgaagt	caagtatcct	ctggaccatt	ttaagacgtt	300
45 caatgaattc	ttcgtacggg	agttaaagcc	tgggtgcaaga	ccaattgcgt	gcatggatca	360
ggatgatgtt	gctgtatctg	ctgctgattg	tcgattaatg	gcatttcaat	cgg	413

50

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<212> DNA

<213> Arabidopsis thaliana

55

<220>

<221> misc_feature

<222> (1)...(413)

<223> n = A,T,C or G

60

<400> 547

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5 gagaattnnn nnacagagaa tagcagcttg gaggatcttt gtggtatggt caggctgagc 180
acgctcaaca tcaaattaat tgaggagacg agtctagaaa ctctagctgc atctataggt 240
ggattgaaat acctggaaaa acttgaaata tatgatcacg gttctgagat gaggacgaag 300
gaagcgggaa tcgtatttga tttcgttcat ctcaaaaggc tatggttgaa actgtatatg 360
cctaggcttt ctacagaaca acacttcctt tctcacctta caaccttata tct 413

10 <210> 548
<211> 412
<212> DNA
<213> Arabidopsis thaliana

15 <400> 548
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aaacattaaa gacaaaatac tgtaaaataa aaaacaatct tcaaaacata gatatgctca 120
tgcatagaca gaggggaacct caaaaaaaaa attatttagc gtagtagccg ccgattcaca 180
20 gccggagggtg gcggtggctg agcttgaacc ggagtagctt gacgaggtgc acctccacct 240
ccccaccat tactctccca aggettaaca gtaaacacca caattaaaac cacaataatg 300
agcaatagca aaatggcaaa gcaagtccac ttccgtgtgt tcttctgata aaaccgtgcc 360
ttaacaagcc ggtccgcacc agaccgaaca agcgagttag ctcgtttgac gt 412

25 <210> 549
<211> 412
<212> DNA
<213> Arabidopsis thaliana

30 <400> 549
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cgcccgacac tttctttgga gatgtccact aggtatggtg ttccggtatag gaatagtgtg 180
acgtcatatt cctggaaagt gagagaggag agtgggggtc gcttgagaaa agtgggtctta 240
35 gtgtttggaa cgcacgaatg tatcatacat gccaacgatt cccacatgtt tagactcagt 300
gagtcacca cgaacatcac tcgtttccct ctccatttct tcaaaaacgc ttcccatca 360
aaccttggga cggatcatga atcaggctgc caagagtacc tcggccgcga cc 412

40 <210> 550
<211> 412
<212> DNA
<213> Arabidopsis thaliana

45 <220>
<221> misc_feature
<222> (1)...(412)
<223> n = A,T,C or G

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gtgatatagt cgagaaaatg gcgtcgtgga tgaaagcggg gctaactctt actggcgctg 120
tagccacggc tatgcatcta aagggtattg ttctgtggc tatggatttc tcacaaaatc 180
cgattatatt gagctctttc ctcacgtggc tgaaaccgcc gtatctttac gtcataccta 240
acgtcatcat catcgnnnc ggagtttcc accggattac tactgtctcc agccacgtcg 300
55 acggcaaaaga ctatgaggct tcttacagtg gcgacaataa gtttcagact gatcatcagc 360
agatcgtcca agaagctcct ctaaggcgac gaacggagac gaaagatgcg ga 412

60 <210> 551
<211> 412
<212> DNA

5 <213> Arabidopsis thaliana

<400> 551

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	ctctacaaat	acaaaatctg	cctcatctct	tccatcagat	ctctgccgtc	gattctccat	120
10	ctacgaaatc	aaatccgcca	caaatgattt	cgaggaaaaa	ctaatacatag	gagtaggcgg	180
	gtttggttct	gtctacaaag	gacgaataga	cggtggagcc	acacttgttg	cggttaaacg	240
	gctggaaatt	acatcgaacc	aagggtgctaa	agagttcgat	acagagctcg	agatgctttc	300
	aaagcttcga	catgtacacc	tcgtctctct	aatcggatat	tgcatgacg	acaacgagat	360
	ggactttgtc	tatgagtata	tgccacatgg	tacacttaaa	gatcatcttt	tc	412

15

<210> 552

<211> 412

<212> DNA

<213> Arabidopsis thaliana

20

<400> 552

	tcgagcggcc	gcccgggcag	gtcagagaga	gaaacaatat	ttctaatacta	ttacaagtag	60
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	cgctgaagca	gttgagagtc	ctgccaaatc	ggcgggtggga	agcaagagag	gcttctccga	180
25	aaccgttgat	ctcatgctca	atcttcaatc	taacaaagaa	ggctccgttg	atctcaaaaa	240
	cgtttctgct	gttcccaagg	agaagactac	ccttaaagat	ccttctaagc	ctcctgctaa	300
	agcacaagtg	gtgggatggc	cacctgtgag	gaactacagg	aagaacatga	tgactcagca	360
	gaagaccagt	agtgggtgcg	aggaggctgg	cagtgagaag	gccgggaact	tt	412

30

<210> 553

<211> 412

<212> DNA

<213> Arabidopsis thaliana

35

<400> 553

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	tagtttgact	tgtagctac	aagcctagaa	tgctgtttta	agcatgaagt	agaaaacatt	120
	ttttcttatt	ggtacaatgg	ttgaggaact	ctagagcggg	aacaaagaaa	aagtagcgta	180
	acatatgcaa	aacgcacaaa	tatatatctt	gcacacggac	aagtcttttc	ttcatatcat	240
40	gtaattagac	aaatacgact	tttcatcaaa	gatgctcgca	agaaatcctg	cagtgtactc	300
	tggtatggtg	atatctttgt	acttagcagg	gttttcatca	gacaaaagat	ctttaatcgg	360
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45

<210> 554

<211> 412

<212> DNA

<213> Arabidopsis thaliana

<400> 554

50	acgcgtccgg	aaaaaagaga	gagacagaga	tttactcaac	ggctaagatg	aaaagttcat	60
	cggagctcct	tgtaataatg	attttcttat	tcttggcgct	tctcataatc	ttccacgctc	120
	aatcacttcc	aggtacgccg	tatggcggcc	ctgggtccgta	tccgcgtagt	taccctgtgt	180
	gttaccacc	gtattgccgt	ccatgagagt	ttcaatttgg	tcacatgaat	gaattatagt	240
	caaataccta	tatcaagggtg	atgtatgtgt	gtatattatt	atatgttttc	atcatttgat	300
55	ggagaataaa	aagcttagga	aatatatcca	tgttattata	tgtttcagtt	tgtaatatgt	360
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60

<210> 555

<211> 412

<212> DNA

5 <213> Arabidopsis thaliana

<400> 555

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10 cggacaagta	cgccacgcat	gacgtcatca	tatctacggg	ttctgtttca	tcatggacac	180
gtcagcggag	acgatgagag	ccgttgatta	gacaagaaga	agaagggacg	gctgagatgc	240
cttgacgcgt	tagctcagcc	aaaacgctct	ccgcggacgg	cggtttttagc	ccgagcggta	300
gcggcagcca	cggtttgctt	atcgcttctt	taaccacttg	atctaacatt	tcctcgctcg	360
gctgactcgc	cggcattatt	ttgaagccgg	tttcagctcc	gttgggatat	tg	412

15

<210> 556

<211> 412

<212> DNA

<213> Arabidopsis thaliana

20

<400> 556

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gtgaagatgg	ttcagtggca	tcccaccatg	gatgttttat	tttcttgag	ttatgataac	180
25 accatcaagg	tttggtggtc	tgaagatgat	gatggtgagt	atcaatgtgt	ccaaacctta	240
ggtgaatcta	acaacggtca	ctcttcaacg	gtatggtcca	tctcatttaa	cgctgcaggg	300
gacaagatgg	tcacttgtag	tgatgatcta	accttgaaga	tatgggggac	agatattgcc	360
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30 <210> 557

<211> 412

<212> DNA

<213> Arabidopsis thaliana

35 <400> 557

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cagttgatcc	ggagaagggtg	atcgcatcgg	ctgagaagca	ccaagctaag	atcaagttcg	180
tactcactac	gcatcatcac	tgggatcatg	ccggtggaaa	cgagaagatt	aagcagttgg	240
40 ttcctgatat	caaagtatat	ggaggttctc	tggataaggt	gaaggggtgc	actgatgcgg	300
ttgataatgg	tgacaagctg	actttgggtc	aggatattaa	catattggct	ctccacactc	360
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<210> 558

45 <211> 412

<212> DNA

<213> Arabidopsis thaliana

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50 <221> misc_feature

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<223> n = A,T,C or G

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cgttgcttca	gtttctggga	tcagctctga	atgaaaataa	cgcttcagcc	caaaaagttg	180
gagccatggc	tctctttaac	ttggctgtgg	acaacaacag	gaacaaagag	ttgatgctag	240
catcaggaat	tattcctttg	ctggaggaaa	tgctctgtaa	tccacattcc	catggttcag	300

5 tgacggcaat ttatctgaac ctctcgtgtc ttgaanaagc aaagcccgta ataggttcga 360
gtctggcagt tcctttcatg gtaaattctt tttggaccga gactgaagtc ca 412

<210> 559
<211> 412
10 <212> DNA
<213> Arabidopsis thaliana

<400> 559
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15 aaacatcctg aacgagaata ttactttcat tatctatcat gtaagacacg tctagtccct 120
ccagaaccaa gtgataaaca atttcctcat ccaatgtatc ttgtggcttg ttccgttgcg 180
acattgatcg tatgtcccat gacaggacct gcgtgatcaa gctcctaaac tcatctgctg 240
aactatatag agactttctt tctatcagtt tccagcagct ggtgatggat gaagagaagg 300
tatctgagaa agtcacagaa gccacagcca atgagcagtc ctcctttacc cagtttggca 360
20 ctgaggctcc ttgaatactg tccgagtatg gtaaataatgg tttgatgtcg ag 412

<210> 560
<211> 412
<212> DNA
25 <213> Arabidopsis thaliana

<220>
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30 <223> n = A,T,C or G

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35 aaatcacaaa accaatgact ctttttctgg ttaatgcttg tgattccaat ggggtagggg 180
ttcatacaga ttagaatcag gagcaaatgg attctgcatg ccttcacggg tcacctgttc 240
cggcaagaaa tttgccgtct cactctctg attttgtgct aaaccagcac tgggtgttgg 300
acttgaattt gctggtttca aaatgtgggt agagtttggc ggaataactag aggangcact 360
cgggtgtgtg ctgaatggta tgcccatgtt tgggtcttgac caatgcaaag gg 412

<210> 561
<211> 412
<212> DNA
<213> Arabidopsis thaliana

45 <400> 561
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agaaaagagt catcatgaca tttttaacaa tgaacaaact aaaaagagtc atcatgatat 180
50 ttttaacaag aacaaactac aagtcttata gaagttttct tcggtattgg aagcagtttt 240
tgcaggtcag agcatgcaat cagttcttgc aggaagcctt ctgaagaaat tgagaggaac 300
ggatggtagt ttgtatctga acctcggatg tctcagagca tagattccaa tacaagagac 360
cacaacctgg aaaggtgtca catagagaat gactgcggca atcaagcaga ac 412

55 <210> 562
<211> 412
<212> DNA
<213> Arabidopsis thaliana

60 <400> 562

5 gcgggccgcg atctgttact tcttctcctg gcgatcgctc ttcttgcgac gccggcggtc 60
tccgatctgg ttttatccaa agtcgaacgt cgtatcgatg tgacttcaca gattgctcgt 120
gttactaaga cccttaaggt tgtaaattct ggctctgaat cagtttctga gtttgctttg 180
acattcccaa agtttcttgg taacaacttg gcttatctat cggttgctcc tagtgaggga 240
aaggggaaat ctaaacgaac tttagtgaat ctctctgtga gagaagctga tcagaaaggt 300
10 ttacctgatt caattagtgt ttactcagtt gcattaccca aaccactgag taaaggcgat 360
actttgacgc tggaggtagt tgctgcattc accaatgtac ttcagccatt tc 412

<210> 563
<211> 412
15 <212> DNA
<213> Arabidopsis thaliana

<400> 563
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aaaaaaaaaa agttgaatat ctccgaagag attcagatta atcgacataa tatgcttctc 180
tgcattgttc ttagctcatg agagatctca agcaccaatt gttgctgaat cttttccaca 240
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agatcagttt caatgatctg atccaatgat cttgtaggag agtcagagca gagtaaaactc 360
25 cagtcaaaat gtctcatcgt ctctggaatc agatcatctt ctctaaggga tg 412

<210> 564
<211> 412
30 <212> DNA
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aaaatcattc caatctccaa acacaagccc acactcggtc cttttccga cctgttccac 180
gtcttgtttc tcccgtttca gcgacgcaca cgagccttcg aagaccactt ctccgcttcg 240
taacagcctc atgagtcgc ttctacatac ccgaccatcc atcactttgc aacctgcgat 300
gtttactcca tcttcttcgg ttcttctctt tcctaagatc ttgaatatgc taagtacctc 360
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<210> 565
<211> 412
40 <212> DNA
<213> Arabidopsis thaliana

<400> 565
45 tcacaacaaa tttcggtagc atcagatatt tgcaagacgt agatttaaatt gttatatatt 60
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50 cagaaccaga gttagtaagg ttcttgtaac tcaactttcac gtctccttcg ttatcgtctt 240
cttcttctag atcactgaat gatacatctt ctctgtcttc accaaaagga tgatttgtgg 300
ttgatcttcc tccaatggcg ctaactgatg aagtctcttc atcattcaac caatcatctg 360
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55 <212> DNA
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60 <220>

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5  <221> misc_feature
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   <223> n = A,T,C or G

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   aaagcccttt gatcgatcga agccatcatc agcctctgct aatgcccctc ctactcttag      180
   gcctgcttct actcgagttc cttctcagag aattacacct cacagtgttc cttctccaag      240
   accaagttca ccaagagggt cctccccaca agccatctct tcaaagnngc cttctccaag      300
15  agcagagcca ccaacattgg aactcctaag acctcctctt ccaagagctg cttctctaag      360
   agcagacca ccaagattgg atgctgcacg acccaccacg cctaggcctc ct              412

   <210> 567
   <211> 412
20  <212> DNA
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   <220>
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25  <222> (1)...(412)
   <223> n = A,T,C or G

   <400> 567
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   gatacttagt atggacgtta agccttacac cttcacttac tcggaactta aaagtgcaac      120
   tcaagatttt gatccctcaa acaagcttgg agagggagga tttggccctg tttataaggg      180
   aaaactcaat gatggaagag aggtagcagt gaagctattg tcggtgggat cccgacaagg      240
   gaagggacaa tttgttgtag aaattgtagc aatttctgca gtccaacatc gcaacttagt      300
   aaaactttat ggggtgctgt atgaaggaga gcatcgtttg cntgtatatg aataccttcc      360
35  taacggaagt cttgatcagg ctctatttgg ggaaaagact ttgcatcttg at              412

   <210> 568
   <211> 411
   <212> DNA
40  <213> Arabidopsis thaliana

   <400> 568
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   ttcttaacca gacgacatta atgaaaaacc ctcataaact agtagtgtct tcaacatgag      120
45  agattgggttc caggagtgtg cccaagcttc ttgcagaagt ccaagtaatg gttaaccctg      180
   ctctgcactg cagctggacg cccaccatta cattcaccac cgttgatcct cctcgtgggt      240
   gcaccaaacc cttgggtcaa aaccggacgc acattcttgt tccaaaacca catggcacac      300
   tggaaagcca cagttgggct acgagccacc atatctgggt cttcaagag aggaagtcca      360
   aggaactttc cggctgcacc atagttgtag ttccatgtga tttggatcgg a              411

50  <210> 569
   <211> 411
   <212> DNA
   <213> Arabidopsis thaliana

55  <400> 569
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   aattatcctg atgaagataa aagtatatac aactctactt ttgaacctag ctaccactca      120
   aacaaagagt ttccactca gaggttatta taatcgtcaa atacttatcc acatccaaac      180
60  ataggaacct gaaatttcac tcaaaacact actagaacag agacaaccaa tgcaagagag      240

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5 agaatggtta agagaccctt acataaaatt ttaacttttg aaagctacct gcaagatcgc 300
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 gagaacgaaa tcccaggttc tgagtagctc aaacacacat acatctcctt c 411

<210> 570
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 <223> n = A,T,C or G

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 aaatccaatc catcaaggca caaaagggttc aactgcagca cagaatgaaa caagaagcag 180
 aacagtttcg acagtggaaa gcctcccagag agaaggaact ttgacagta cggaaagaag 240
 ggagaaagag cgagtatgaa aggcataagc tgcaagcttt aaatcagcgc cagaaaatgg 300
 25 ttcttcagag gaagacagaa gaggtctgcaa tggctaccaa aaggttgaaa gagttgnnng 360
 aagctcgaaa atcatctcct cgtgaacact cagcttgtag ctcggccgcg a 411

<210> 571
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana

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 tcctcttttg cacagcttct tctgctttcc agtatgaagg tgccttctta accgatggaa 180
 aaggtctgaa caattgggat gtctttgccc atgaaaaccc tgggaaaata gttgatggaa 240
 gcaatggaga catagctacg gaccaatatc atcgatatat ggaagatc caatcaatga 300
 attttcttgg agtcaatagt tacagattat ctatttcctg gtctagagtc ttacctaatg 360
 40 gaagatttgg agttattaat tataagggaa taaagtattc caccaatttg a 411

<210> 572
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana

<400> 572
 50 tcctccggcg cctgcacctg ctccgcgctc taaaaacatt ccgacgtcta tcccaatccc 60
 tactccggcc gtaactggtc aagcgaaatc taagggtggt ggaaaggcta atcctggaca 120
 caagaatcca tctggcgcgc attcaaaacc aggtccgagg agcaaccaga atggctcctcc 180
 tcctcctcct tatctcgtgc atgctgtacc gtatcatcca cctccttttc cacctatggt 240
 gcctctgcca catgctgctg gtccagattt tccatattgca ccttatectc cctacccggt 300
 tcctgtgect cctgttactg agtctggcaa tgagaagcaa gttcaagctt cccctcttcc 360
 acctgtgttg ccagctcctc aaggggatcc tggaaagcct tggccgcac a 411

<210> 573
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 <212> DNA
 <213> Arabidopsis thaliana

60

5 <400> 573
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agcgtagaaa aggatcttag atttatagca gcaacaaaaa aatgtcaatg ccactacaac 180
gtggcatctc tggagtacga gtttctgata gcagtgatga tttgagagac tctcaaata 240
10 aagacaaaaac tgaaagagct cgttctactg agaacaacaa cttaacctta aggtttcctt 300
ttggtttcct ctttagtaat caatcttctt ccaaacacgg tgggtggtggc gaaaacgggt 360
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15 <211> 411
<212> DNA
<213> Arabidopsis thaliana

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ttacaaggca aagtaccaa cacaaactct ctggaatcac tgcacaaaca taccctactt 180
atgttgctct cttttctctc aaatctcaaa atgaaccttc cgtttgttcc gtttgctcgcg 240
tctctgatat agaatacagag atttctgaat ctgctccttg agatcttctc agcttagaaa 300
25 caagaaccca catattagca agctcattct ccagatatgc ttctctctgt tttgtttctt 360
ctaatactct ttcaagctca gcttctcttt gttctttttt accaagtgc g 411

<210> 575
<211> 411
30 <212> DNA
<213> Arabidopsis thaliana

<400> 575
35 tttgtagcta tagaagaaac tatggaatct tatactctaa ttaagcccaa tggcaagaga 60
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acacctcatt tttgtactca agaaatcagc agctatgaga tccactaaag ccatgtacac 180
aagaattccg gctgagagcg agtccaagat accttcagtg accaatgctc cgacactgtg 240
agaattgaaa gacgacgcca ctgcggttcc aatcccgatc cctatcgggg ttgtgagggc 300
gaaaaaacia gccattatgg tcgctgattt gttcctgaat tgcgcttggg agatgcatcc 360
40 accgagcgca aatccttcaa agaattgatg gaaggatagt gctgcgatta g 411

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45 <213> Arabidopsis thaliana

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50 aagaacgaaa cacaaaagag aaaaaatcaa cataagttgt cttcaaataa cttggactct 180
cagataggtg atgatgataa tcaaaagcac aacgacgggt gaaggtgttg atgagggctc 240
gtaacttaga tgcgccataa cagaatcttt cagcttaacc ggcgattttc ctagagtagg 300
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55 <210> 577
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60 <213> Arabidopsis thaliana

5 <400> 577
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 tatacacacg agaggatata caggagaggt tatagttatt agagaaggga tcggtgttgt 180
 gtgaagatgt aaacctcgtc gtaaccaatc cctgcgtatc cacagtaagt aggcttatag 240
 10 ttgtaaatga gattgctcag cactttctta gactctggtc tgttcagtga cttcctagct 300
 tcactgacta gatgatttgc ggcgtgctga ctcacctgga tcgcgtcctc agagtgtgga 360
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 15 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana

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 gaagctaaga ggaagaactt ggattctttg taattggaag ctttccatca tatgtgctct 180
 tcagtacatc tggtttcctc acaacccgag gtcctactgg aaccttcga ttctttggcc 240
 taatatcctg atcaaagatg gctgtaggta ttgctagtgt agcaacggca ttcggagaat 300
 25 caactatccc agatagtctt ctttcacatg gacaacatga gagtaagagg tacacctgtt 360
 cttttgagta accaaatttg aaaagatagt ctatggcggt gagaactgcc c 411

<210> 579
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 30 <212> DNA
 <213> Arabidopsis thaliana

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 35 ctattttcaa ataaacatat tttctcatga attacatcat tacaagaaat ctcaacaaaa 120
 gaggatgaaa atgttaaagc gaagatgagt tttcacttcc agagttcttc catggggatt 180
 ccacgctctt gtgcaacatc gcggaactgt ctcactctgt gtactgctgc aagagtggct 240
 ctgcattgt tgagagcatt gttgcttcca agctgtttcc ccaatgcatt ctgcactcct 300
 gccatctcta gcacaatcct aaccgctcct ccagcaatca caccagtacc tgggtgaagca 360
 40 ggtctaagca tcaccttggc tgctccataa tcacctctg atctgtgagg g 411

<210> 580
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 45 <213> Arabidopsis thaliana

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 50 aaacatctac tggataatth gttctccata aaaaaaaagt caaacatttc taattacaat 180
 ttatacgtcg gtccattttt ctcaaaatga ctaaattgac cctactcggc gatcgtgctc 240
 aaattagccg tgaatcgctt cttcccttta ccgcaacctc ttccgccacc accgtttgtc 300
 ttaactccgg caatgttttt cttttggtta gttttttccg atgtcgttac atcgtcgtcg 360
 ccggaaaccc aaccgacgcc accgctcttg gtcaacgccg aactagcttt c 411

55 <210> 581
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 <212> DNA
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5  <220>
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    gtttgtaaac  tgcacctcag atttcatctc ccaaaaaacta ttctctctct ttgctctatc      180
    ttctcttctt  cagctactaa ttgctctgtt taccgttact gccatcgcat tccccttcac      240
15  caaatccgtt  acgagcttct tctttcgcct tcaaactctaa ttttccttct gttccgttgc      300
    tgttgtcagc  cagttcttga tttgaaccgg gtgggaggaa cacaccagtg cctgnnntgg      360
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20 <211> 411
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   <400> 582
25  tcaattcttc  ctctctcgg atccattttt agaggagtct agtttcttac ttgaacatag      60
    acatggaatc  aactaataac tgacaaccaa gaggtgttcc ttttcaaata attggtagta      120
    gttatattat  gcttgacag tgccatgatg ggcattctgt agatgaaaag ctgctgctca      180
    tggcttcttt  tgatctcgtt gctttgctca ctatctaata aaagtcaagc gattagtcct      240
    gacggcgagg  cgcttctgag cttcagaaat gcagttacta gatcagatag tttcatccat      300
30  cagtggagac  cggaagatcc agatccatgt aactggaacg gagtgacatg tgatgcaaaa      360
    acgaaaagag  ttataacctt gaatcttact tatcacaaaa taatgggacc t              411

   <210> 583
   <211> 410
35 <212> DNA
   <213> Arabidopsis thaliana

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40  cttttttttt  ttttttttt tgcagctaaa atcacgagtt tcttatagta tcacataaga      60
    aaaggttcca  taggttctct acagtgtcag aacttataag gtcctatgcc aaatcaaata      120
    gcaaataaag  caccttacca ctgtgaaata ccttttaaca ttgtgacaca aaaattacaa      180
    acctaacaat  caaacatcat tcagtacttg ctatacttac aaagttaggg ttctttatact      240
    tacctaaacc  ctaatcccc gagggttgtt gaaccaatca cgattccttg tagttcctaa      300
    ggtcaaata  cattgtactt gagcaactcc tctcgggtgc tctgtaaact ccaaccagag      360
45  cctccgcctt  gtcatagaag ctgtccttga gagatattac aatgctttgg              410

   <210> 584
   <211> 410
   <212> DNA
50 <213> Arabidopsis thaliana

   <220>
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   <222> (1)...(410)
55 <223> n = A,T,C or G

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    aaagtatatc  tatcacaaa ctcacaaaag agataggtag aaacataatg acaaatcaca      120
60  atcagcacac  cattacatta aaagtcaaat ttaccttttt aataagaaga tacaaaaata      180

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5 tataaagaga agaccaagac aatttgactt gagtgattag gaggcattgt tggcctgnnn 240
 taatccattt cgaatctgcg ttgccacgtc agcgacggcg cctggaccgt gagggataaa 300
 caccgccgan gctttagaag ttgctccgat atctctcatt gtgtcaaagt actgagtcac 360
 catcaccatg tccaacacat ccttcgctga cgtccctggc acgtttcctg 410

10 <210> 585
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 <212> DNA
 <213> Arabidopsis thaliana

15 <400> 585
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 agtcccaaga acatgtttat agctatctgt tttctattta ttctctttgg tctctataca 120
 aaacatggaa ctgttctggg acttctttgt aaaacctact atctatattc aaaaatatta 180
 caaaaaatta ccaaaaaacg gttccatctt ccagaaaaca aaaacaaaga agaggaaaga 240
 tccgaacacc aaaatcttga cgaatctttt aacgaaacag atcagatgag agttgtagat 300
 tctgataaac ccgttgctgc cttaggtact ttcttctcca gcattgaggt tcctttgaat 360
 attgtaagct gcacttcctt ttggtactcc tgcaattgct ggtcagacat 410

20 <210> 586
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 <212> DNA
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 ccgaacagct agggagaatt taagagcagc taagaaggaa ttcaacaaaa ctgaggatga 120
 tttgaagtct cttcaaagcg ttggccagat tattggagaa gtactacgtc ctcttgataa 180
 cgagcgattg attgttaagg caagtagtgg ccctcgttat gtggtgggtt gtcgtagcaa 240
 ggtggacaag gaaaagctta cttctggaac tcgagttgtc ctggatatga ctacgtgac 300
 aattatgcga gcccttcctc gtgaagttga tcctgttggt tataacatgt tgcatagaaga 360
 tccaggcaac attagttact cagctgtggg tggtttaggt gatcagatca 410

30 <210> 587
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana

35 <400> 587
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 tcggttgcc cttctctcc atctccttcc tttatcctac catgacaatg cctatgtagc 180
 atcacgggcc ttacacattg tgaataccgt acacgccaat gctaccttca gtttgctgga 240
 agggttcttc aagcatcagt cattgtttta caacgcgcaa acacaactcc tttcaagacc 300
 tgcagttgtg gagaaaatag tcgaacttgg aacagtctcg ttgggggaact catatcaatc 360
 ggttctttaa tccggcttca gcgacaaaaa atcggatcgt gcaaccagag 410

40 <210> 588
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 <212> DNA
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45 <220>
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 <222> (1)...(410)

50 <223> n = A,T,C or G

55

60

5

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attccgtcca ccaccatcac caatccctcc aaagtccga tctactcgaca ccgccggaaa      180
10 aatcgaagtc ctccgtgatc gtctcgggtc ctggttcgaa tacgctccac tcatttcttc      240
cttatacact gaaggattca ctctccatc aatcgaagaa ctccaccgaa tctccgggnt      300
cgaacagaac agtctcatcg tcggcgcgca agttcgagac tcttttagttc aatccgggtgc      360
caaacgggag cttatagctg cgtttgacac aaatggagcc gagcttctct      410
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15

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<210> 589
<211> 410
<212> DNA
<213> Arabidopsis thaliana
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20

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acaagccaaa tcaaaccaa gtgaactact ctatatactc gataacaaga aacaagagac      120
caatagtcca acagactaaa ttgttagaac aaagagagtc gtgacaaaca tatactcatt      180
gatgcttctt gattgatgat gaagcacttg tccatgcttt tatgagcttg gggaaatcaa      240
25 actgcgagca ctataataac aatcatgagc acgataccaa aaatcaccaa gagcaagcac      300
gtcagagaag aatttgatct ttgtgtcttt gatgccttac gagatgggat tttccttggg      360
cagttgcagc gtaagagtta tcgatgtgag taccaatatc atctatcatg      410
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30

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<210> 590
<211> 410
<212> DNA
<213> Arabidopsis thaliana
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35

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gagttgaaga aacaagcttc atttttcttc aaagagaagc ttaaaacggc gcgttttagct      120
ctcaccgatg ttactcctct tcaactaatg actgaggaag ctacgggatg tgagtcattg      180
ggaccaaata cacaacctt aggggtccatt tcaaaggctg cttttgagtt tgaagattac      240
ttggcgattg ttgaagtctt gcacaaaaga ttggcaaaagt tcgataagag aaactggagg      300
40 atggcttata actcactaat agttgttgag catctactca ctcatggacc agagagtgtt      360
tccgatgagt ttcaagggtg tatagatgtt atctcccaaa tgcaaacctt      410
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45

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<210> 591
<211> 410
<212> DNA
<213> Arabidopsis thaliana
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50

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aaaaaaatta cttgttgat acatatggta caactgggat ttcttcaaaa gttttaagcc      120
tactcgctccg tggaaaaata ttgccacgct gcagcagctc ctgcaactaa tatgattttt      180
aagataagtt tactagacaa gaccgaagat tcagcttctg atgatgatgg tgcttcaatt      240
ggctctccctc taatcttggc tgtgattctc gataataact gcttaagccc acctgttttc      300
tttctgtgct ggcttttgag aaacctttct tcttcaccaa ttcgtctacg tagaacattt      360
55 agcaatgatc caaaatacaa tgccaagatg gtgcatgtga tcgtgattac      410
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60

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<213> Arabidopsis thaliana
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5

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 <223> n = A,T,C or G

10

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 gttcttctta tatgagtggg tgtctgatac agttacgggt agagctagaa ggaaccgat 180
 15 tgttggttct agaagctgct gatcatcttg ataaatttgg aaacaaaaaa gctcgaggaa 240
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 tacaagttca tggagcagcc ggtgtatcct cggacacagt tttagcgcac ttgtgggnta 360
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20

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25

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 tttctctaata gtttttgggtg aaacagagac acaaattcca gctcaagtgat aataagatac 180
 atgccaggta ggttttagtgt ctaaagacga agccgttcga atggctgatg atgctgaact 240
 30 tgatctgctg gctacaatca aagtgaacgg tgaatacgcac tacggatacgc ccaaagcaga 300
 agttggagta cataggctgg tgcgtatatc cccgtttgac agtggaaaac ggagacacac 360
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35

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 <212> DNA
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40

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 attaacaata ttctgcaagc catcttagta tgttttaata ggcttataaa acacgtatag 180
 cataagtagt tttaatagag aagaagaaaa cacaatttgt aaaagacaat gttatatagg 240
 ccttttgagt ggactgcaaa gttttagggc aaaaccataa aaacttcaac gtctaggtgt 300
 45 tcttctggtt ttaaagaacc tttctctgat tgagatcaac tcttttgaga cttcactcgt 360
 tgccaaccgg ttcgtaggat attcttcaca gcacctaagt cccacctcca 410

50

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 <213> Arabidopsis thaliana

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 gagaagtttg agaaagacga ggcagcaaaag aagtctaaga aagggtggga gaagaaggca 180
 atgagagcca gagctggacc aagaggtttt ggtcagaaga ttgaagatga tgacatcgac 240
 attgatcttg agtgattttg tgtgtagtag agagacaaaag attgattttg tttgtaattgt 300
 tgctcagtga ttgtcacatc tatgatattg ttcttgtgta ccaagcaact tgatgggtcga 360
 60 tataacaaaa atattgcaat attacagaaa aaaaaaaaaa aaaaaaaaaa 410

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<212> DNA
<213> Arabidopsis thaliana

10

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tggtgggtcgc gacggtgttg tttgtgggtgc tgagcccggg attgttggtt caggttccgg 180
15 gaaacaacaa cttttagtag ttcgggaaga tggaaacgag cggatactca atccttctcc 240
acgccttcct ttactttggc cttgtcactg tcttcaccgt cgtcatccac tttccgggca 300
cttaattcta tgtaatcttt acttacaaaa actttttctt cctatctatg cttttacctt 360
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<212> DNA
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25

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gaaaataaaaa gcagagtaga gccatcctaa acgtaattaa accaaaccag actttgccac 180
atatttagtc agagactaag aataaagaac acaaaagtac atgacaagat gcgaagtctt 240
30 gcttctgttt aagagatgtt catagcttca gcatgatagc tttcgagatc tttgtcgaga 300
tccgcagcag acttctccac tggcttcttt ccacctcgcc caccgctttt attccctctg 360
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40

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tcgtggagcg taatctcgag tcgggcgggg caaggccgga tgtggatgtg tatgagcagt 180
cgtcggcatg gacttaagat ccacaacaac atacaacca aattacatca gatcgatatc 240
ctacaacaaa agtctcctcg acagcagcaa cattcggttaa tcaccaccag tttcctgcgt 300
45 gatagtcatt atatgtatag ggacaacaac aacgatgggt catttttgagt tagtgatttg 360
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<212> DNA
<213> Arabidopsis thaliana

55

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ttggattgta agagttatct gatgaagaag acattgaaga cacattaatg ggatataacct 300
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gtaatatgaa caaatccttg taccagaaac tctcaatctc ttgttttctc caatgcgtta 180
45 agtttcagag cagcactggt gaggcaatat cgttttccgg ttgggcgtgg accgtcgtca 240
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atgatagaga ggtctagctt tgtcttcaca ttgtttccaa ttggttggtg gtaagatggc 360
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60 caaaactctg atacatgccc tcgaggttgg gttaaaggcca ttctcgaaaa ctcaggtgat 300

5 gctaccaatg agcactgcaa gttaggggtgt gaaacttctg tgtgtggtgc catgaacact 360
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atggtgacca tgatgatgat gatgatggat aaaacatgca tatgtgcgga catttccaga 180
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aaaatcacccg atttttagcaa tgctgatgtc gctgttgatc agtatcatcg ttacgaggaa 360
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30 ttatcaacag tctccgacgc ttggcgcgta ccaactcagg tcatattgcac agtaggtatg 180
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ggcagagtgc tgatttagat cccttggtca ttgcaaagtc tgagggaagt tatgtgtatg 360
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35 <213> Arabidopsis thaliana

<400> 633
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5 cgggcattca ccaaattccac ttgctcatatc acgcgttcag ttccatcaag accagatata 360
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 accctttgga aatgattcaa ataaccatag attgnttccg attccgtcgn ntnnnntcgat 360
 25 tccttgctgg ggaatgtcaa ttgtcgctat tgattctgaa atttacgt 408

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 45 aaatggtgga tctatactc aacaagatgg tgcaagcgat gctatccc 408

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 <212> DNA
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50 <400> 637
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 agaacacact aatgtacggt acttcatggt actgtacgga agattagata agaaagaagt 180
 55 gacacacgac gatggatcaa agcttgaatt atgcatgaga atgggtagat cagcaatgtc 240
 tgggtgcagaa gcaacgacga cggaatccac ggcagttacc tccgacaaaag ccttcgttgt 300
 ggcacacggt ggcgagttt gatgcactca cgcatgtacc cttgaacctt tggtctgctg 360
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60 <210> 638

5 <211> 408
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 <400> 638
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 15 tataacaacg ttgatgttga agctgccaat aagtatggaa ttgctgtcgg taacactccg 360
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 20 <212> DNA
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 ttaggttcgg cttggttcct gcacgttag cattgcttgc tgaaagnnga caatgtgtaa 180
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 gaaccatcct ccatatccat gaaaatcatg ttggtctcca cggctgcaac atttactcta 360
 35 atccctttca tttgattcaa cccttcagct aacaacttag ccttcttg 408

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 40 <213> Arabidopsis thaliana

 <400> 640
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 ccacgacttg aaaaacgccc gaaccggaat cccttggagc tccgcgatct taccctgaga 360
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 aaagcctttt ctcaaggcca caatgatggc tcaaaaagtg aacatctttg aatccagcca 180
 60 aagcaaaacc tgaatgcaat gattcagtta ctccggactc atcattcttc ggctacatga 240

5 tttgaacggg taccgagtc actagcacca gcggcttttg tagccgcttg tttcttcttc 300
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 taatctgaag gtatcaagaa agggtcagcc tcgtctttgt aacggtta 408

<210> 642
 10 <211> 408
 <212> DNA
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<400> 642
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 tccttctcgt cctcgtctgt gcagctactg ttgctgctcc actcacattt caaggtagat 240
 ctcggagaac cacaatacct tcctagcttc tcaaaactct gatacatcac tgttctcttc 300
 20 tcttctccta gagactccat tgttgactct ttgcatccgt aatcgtctag gtccacagag 360
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<210> 643
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 25 <212> DNA
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 gaaaacaagt ttcgatgttc caccgaagtg ggcaaatctt taaaccgtac caaactccca 180
 taaagactcc aatacactta gaatgaaaaa gcaagagaca aattggttgg agcccaaac 240
 catgtgggtc aaagtctctc taaggagtta cttactgctg ggcacattgc accctttgag 300
 caccaccggg atgggtcatc tcttcatcgt catcatcata agcctctctt tgagcttggtg 360
 35 ccttctctct catctcatcc tcaatgttga catcgtggag cgtggtct 408

<210> 644
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 40 <213> Arabidopsis thaliana

<400> 644
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 aaaaagagag tttcttttgt tttcctagta cttatactta ttgctattct tttgtacaaa 180
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 tcgtctcttc taacaatcca ctcttctctt ccactaccgc ttctgctaac tttttacaag 300
 aacctaactt aagagagatg gaaggaacct tgaccttcgg ttatggcata aatcagcttc 360
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<210> 645
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 60 gtacacttca tatttgcaaa cgccatggtt tcttttgaac atcttatatc gagctatcct 240

5 ggaccattgg agattgtctc aatcttgtgt ccggatcctc atttcaagaa acgtcatcaa 300
aagagacgtg ttgttcaaaa gcctttggtg aattccattc ttcaaaacct aaaacccggt 360
ggaaaaatat ttgtgcaatc cgatgtgctg gatgtggctc aagacatg 408

<210> 646
10 <211> 408
<212> DNA
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<400> 646
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aatctttacc ttagagtcaa tcacatatat gtgaactcag atgacataaa ggaaaccgga 300
20 tacacctaca tcatgccaaa gaacattttg aagaagttca tatgcgttgc ggatcttcgt 360
actcaaattg ctgggtatatt atatggtatt agtcccccg ataatccc 408

<210> 647
<211> 408
25 <212> DNA
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<210> 648
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40 <212> DNA
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<220>
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agaactagaa tataagcaga cgacatgcat agagaagtcg tctactgcaa taaacagaag 180
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agtcacacac agggaaatct tacgagggtg gaagacatta tcaacagagg agatgagatc 300
aagggttgat cacagaagta gaagagaggc aagaaccatt gcgaaaacag aaagtagaag 360
agatagagtg attcgggttt gtccactagg tgcttgtgca ttggttg 407

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60

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 gatgtaaaact tatggaagct aatgggtgag tttaatctcc atggaatcac tgcgccagag 360
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<210> 650
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 ggccgtcttt tctgtgctgt aaaagacttt tgtogaatca ataaattaaa caacatccgt 180
 ttaaacctca tacgtcacac ggtgtgacaa caacacattc gccctttaac acgaatcttt 240
 caccgaatcc atagtcataa gacgcctcga atgagttttc atcaagtga acgtccgttc 300
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 35 <212> DNA
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 aggatgtcga acgaggaaca tttagtcata gtcattctgt ctttcatgac caggaaactg 180
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 aaagcccga ctcgttggtg ctatgggaag ctcagtttgg agacttcgcc aatggagctc 360
 45 aggtgatatt tgatcagttc atcagcagtg gagaagccaa atggctg 407

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 55 <223> n = A,T,C or G

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 60 aggaagtggg tgatgatgct atgcacgtc tacgattaac atcgaatctt gaagatttgt 180

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10 <210> 653
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<212> DNA
<213> Arabidopsis thaliana

15 <400> 653
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<210> 654
25 <211> 407
<212> DNA
<213> Arabidopsis thaliana

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tactattagt tataaaatga gatgaaatgt gttttttttt tttcttttta atagttcaca 240
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35 tcgtctcttt caatttaa atgtgaaatct ttctttaaca agcagagcca gcttctacca 360
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40 <211> 407
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<400> 655
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cgtggatagt gtccttctgg actcttccca tgaggctcata aagcggcttg cttagctttg 360
50 gtctgtgaaa ctcttctaga accggagggt cctgcatgta gagagtg 407

<210> 656
55 <211> 407
<212> DNA
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<400> 656
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	ccaattttct	tgctgcacaa	tcgttgtagg	ctttaagtct	tgatctcttt	gtttaataaa	360
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 <213> Arabidopsis thaliana

15	<400> 657						
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	tcacgcaggc	acagttcaag	gtcacggtct	aggtcccat	ctaggtcgtt	atcacgctct	120
	ccgaaacgct	cacgcagacg	ctctccatct	tattggaggt	ctcccaggcg	aagaagcagc	180
	aggtcaaggc	actgaagaga	ggaaactcta	attgttgcg	cagctttttt	tggtgcctct	240
20	gttcatgttt	tttttttttt	ttctgtgtgt	tttcgtatcc	ttacgattca	gtggtaaaat	300
	atggttttgt	gggtttacat	gggataataa	caacgttttc	atatgatgtt	ttagaaattt	360
	ataagatgtt	ataaaaaaat	aattatttta	aaaaaaaaaa	aaaaaaa		407

<210> 658
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

30	<400> 658						
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	tagaattaag	ttgagaaaga	aatatcctag	caaaatccga	gaaaattaag	attgtacttt	180
	tggcatccaa	aaaaaagagc	gaaatccaac	accagatagt	atagaagaaa	ttaaaaacaa	240
	ccgatgcccc	caaaggagt	tttcatatga	cttgatagtt	ctgggcaatc	agctgcgtcc	300
35	tctgcacaaa	cctaggagtc	gcaccaccac	ctcctctcag	aggaatcatt	ccagtcacct	360
	tcaagccact	gtaggtactt	gtcgtgcaa	actgaacaga	gatgggg		407

<210> 659
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

45	<400> 659						
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	atagtgcgac	gtaatgacag	atcacagcca	tattattaaa	agcttggtgt	aaaaaggggt	120
	ttcgtttctaa	tgcccgaaaa	taatattcta	aagctttggt	atgttcccca	ttacttgat	180
	ggataaggcc	tatattatag	agtatataac	ttcgatcata	ggggtcaatt	tctagtcgca	240
	tagcttcata	ataattctgt	aatgcttcgc	cataatttcc	ttcagattga	gccgacatcc	300
	gttacggtcg	tcattcgctt	taacgaactc	tccgtttcag	aaccgtatgt	gagattttca	360
50	tctcatacgg	ctcctccttt	aggtgcataa	tgaaaacgga	cgcgtgg		407

<210> 660
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 <222> (1)...(407)
 60 <223> n = A,T,C or G

5

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 attgaattcg aaatctgacc agagaacgac attaactcga aacaaattca taagatcatt 120
 acaaaaggaa aaatcaagag acacaaacca aaccaaagaa cccatttttt tttttnnmnt 180
 10 agcaaaccac tcacccaaaa ctgatata ataaaccgga ccatgactct gcaaattaaa 240
 gaaacacaac ctcggtctca agacactctt cactcttctt cttcatcata actaagccaa 300
 gattcttcac ttcttctact ctgcttacat tccggtggcc tctcacctgc ttgaccttcc 360
 gcaagttgac ttcttccagc cttcttgtgc ccagctgatg acttctt 407

15 <210> 661
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

20 <400> 661
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 ttttccacat ttttcttttg tcaaaattga ttgagtgtac caaactttag ttgagaagaa 120
 cattttgtgg ttttaggagc tgtgggattg acgtgacatt agaatcatcc gttgtttccc 180
 actttctgat cttacaattt ctcttttctc tatagtactg tctggagaaa accatttcaa 240
 25 caatatccca agatgtacaa ctgctggtat cattttgaaa accagcgggtg tcgtaaccag 300
 gcttagagcg gttgtcccaa ggagaagcag atagagtttc ctttcgatga ggtgaagatt 360
 ggaggcacgg ctaagtagta caaaggcaaa ctcccctatc tgagcca 407

30 <210> 662
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

35 <400> 662
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 caccgttaca atctcaagcg caagatagct ggtgttcctg gagtaacaga ggcactattt 120
 gaagctagac aagctgctat agctcaagag aagggttaaag ctggtgaagc accgatgctt 180
 tatagttgtg gaatctgtaa caaagggttac aggagtcca aggctcatga gcagcatctt 240
 aagtcgaaga gtcattgttt gaaggcttcg acgagtactg gagaggagga taaagcgatc 300
 40 atcaagcagc ttccgcctcg tcgtgttgag aagaataaca ctgctcaatt gaagggttcg 360
 attgaggagg aagagagtga agatgaatgg attgagggtt attcgga 407

45 <210> 663
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

50 <400> 663
 aagttctttg attctccaga aaattggacg aagcttttga ttcaaattcc agaattaaaa 60
 aaaaacagaa aaaaaattct ttaggttttc attttgaatt cttaccagag agtttcaatg 120
 gtggtagcaa cgaccatagc gctttacgag agtccagcga gcaactgtat ttccacagct 180
 caccaaatca acgctcatat ctcatgtgac ctcatctga actctagatc ttcatcggcg 240
 tcttcttcca cgagttcgcc gactatcgga ggtctctctt tgcttttctc cggcgcttcc 300
 gtcaaatcat cttcctcttc ttctcatcg catccatccg taggagagga attagcttca 360
 55 atacgccatg atcgtagcga ggatcggacc ttaagcggat ctttctg 407

60 <210> 664
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

5

<400> 664

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ttcttctaac	aacgatcacg	gtggaaatgg	aatccatgat	gagatcggag	tccacgtggc	180
gagatccgac	gggtgtgaga	gttttaagcg	tgatatgaga	gagcttcacg	agctcttgtc	240
taagcttaat	cctatggcta	aagagtttat	tcctccttca	cttactaagc	cagttgttaa	300
tggttttaac	ggcggtttct	tcgccgttaa	taatggcttt	gttgetgcgc	gaaatttccc	360
cgtcaacgaa	gacggtagct	ttcgtcggaa	gaagtcgttc	ggacaac		407

15

<210> 665

<211> 406

<212> DNA

<213> *Arabidopsis thaliana*

20

<400> 665

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atagaaaaca	ttacatttag	aaagaaaaag	aaaacaagtt	ctatagagaa	aaggaaaaat	180
gttacaacag	acacgtaaga	caacaaaagg	gagaaaagct	actgagccac	tgtagaagca	240
gtagctcctg	attcatgtga	agacttatat	tccaacatct	caattctgta	tctctccaca	300
tccttaactc	ctttgtcttg	ataaacctgt	ttctcagatt	cagtgcagatt	gctccacatg	360
tgtectattt	tcttagtgat	ggatcgttct	tgtccatggg	actcag		406

30

<210> 666

<211> 406

<212> DNA

<213> *Arabidopsis thaliana*

35

<400> 666

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aagccaaaat	aacattattg	cctaaaccaa	caaacaacat	caaattctca	ccggtgagat	120
ttaagattca	agaatcaaca	acacaccaa	ctagagcttg	aggaaaacga	actcctcaac	180
cgctggaatt	tccccaatct	tcttcagtgt	ctctttgctt	ggtatgtcat	ctactccaat	240
cgccataatc	gcttgcttcc	tcggtgcaat	tctcccaacg	ctcatgaagt	taacattgac	300
attagactct	ccaaggatgc	ttccgacagt	cccgatcata	ccaggttgat	ccacctgcct	360
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40

<210> 667

<211> 406

<212> DNA

<213> *Arabidopsis thaliana*

45

<220>

<221> misc_feature

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<223> n = A,T,C or G

55

<400> 667

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ataaactaga	tgaaatgtag	tagtactttg	atctcaaact	ccaggaagtc	ccttttcggt	180
tgcaatcaaa	cttcaggaaa	cacaacttct	atcatacttt	cttccccaag	aaaactcttc	240
aaccgtttta	cctcgtcatc	actttctcca	tattccagaa	tctgcaactc	cttcacttgg	300
ttcagaggca	tggagacatc	gagtggttaa	cnattcagat	cctcgatgat	gagagtttca	360
agctttggag	actgtttaag	tatatctgca	agcaatttcc	aagctc		406

60

5
 <210> 668
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana

10
 <400> 668
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 tacaacgaaa tctgtatgga aacaaacaat acaaaatata acaggatata attatacaag 120
 tataagtgtg tagtctttac ccaaaaaaaaaa acaagaacta tgactatgag accaaccata 180
 15 cgacatgggt tttactaagg aaacaatgat gtagacagac ataagtgcac ctctgcaaag 240
 agacaaatgg tataacggta aaacgggtact ttaagattgt gggatgggct tcaaagtagc 300
 tgggccttct cttcgcttaa ggagttccgg gaacttttgg gaattccggc aacttgggaa 360
 gttgaggcat cgtcggtagc tctggctttg gaactctctg aactgc 406

20
 <210> 669
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana

25
 <220>
 <221> misc_feature
 <222> (1)...(406)
 <223> n = A,T,C or G

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 gtttttctct ttctctgggt aagttgaaag catcgatatc caaagtaacg agcatagtgc 180
 ttatgtcaca tttaaagaaa ctcaaggagc agagactgct gtgctcttat ctggagcgag 240
 35 tattgccgat caatcagtca tcattgagtt ggctcccaac tacagtccac cagcagcccc 300
 tcatgctgaa acacagagca gcggtgcaga atctgttgtc cagnnnncag aagatgttgt 360
 gagcagcatg ttagcaaagg gtttcattct tgggaaagat gctgtc 406

40
 <210> 670
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana

45
 <400> 670
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 ctgagaactg cacagatgag aaaaatctcg cttctgattg ataaggcgag aatagagaag 120
 gaccacgagg ttttagagat aggatgtgga tggggaactt tggccataga agttgtgaga 180
 agaactggat gcaaatacac cgggattacg ctatctattg aacagcttaa atatgctgaa 240
 gaaaaagtga aagaagctgg acttcaggac tggattactt ttgagctccg cgattatcgc 300
 50 caactatctg atgctcagaa atatgacaga atcatatctt gcgagatgct agaagcggtc 360
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55
 <210> 671
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana

60
 <220>
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 <222> (1)...(406)

5 <223> n = A,T,C or G

<400> 671

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tagtattctt catgacctgt gcttctgttg actactgggg actcgtactt tcaaaaattc 120
10 ctgccctgaa gtccatatct ttaattccta tccatgggga tatgaagnnn natgcaagag 180
acaaggcatt agcttcgttt actaaagcat caagtgggtgc ccttctgtgc acagacgttg 240
ctgcacgtgg acttgatatt ccaggcattg attatgttgt tcagtatgat cccccacaag 300
acccaaatat gttcaaccac agggccggca gaactgcaag attaggaaga caagggaggg 360
ccatttgtgtt tttactgccc aaggaagaag cctatgtaga gtttat 406

<210> 672

<211> 406

<212> DNA

<213> Arabidopsis thaliana

20

<400> 672

aaaatggcat ggcgcagtgc agcacgctct ttcgtctccg ctacagctag agctccgtct 60
ctccgatctc cgccgccaac gcttccccgc ctccgtcctt cccaatcctc tttgccccgc 120
cgccgatttg cctctttcac taatcccagg aatttgggag agctaggatg cacagagtca 180
25 ttcttgccctc tgtacaatgt tgtgggtgca gcgagactca catctcacct taatgttaat 240
ctgcgagctt tctgcgaact ctctaacggg aatggaaaag atgggtgatg gaagtggatt 300
ttcagtcgct ggcaagagag gtgctactgc tttgtacttg agaatgcaca aagtggatac 360
atcagttatc ttgcagcagt tggagacttg agaaaagggg tgtacc 406

30 <210> 673

<211> 406

<212> DNA

<213> Arabidopsis thaliana

35 <220>

<221> misc_feature

<222> (1)...(406)

<223> n = A,T,C or G

40 <400> 673

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cactttgcaa cagaaatgtg caaaaagatt ttggcccatg gaatcacttc ccttcatctc 120
tacacattga acgtggacaa atcagctann nggatattaa tgaaccttg tctgattgat 180
gagtcacaaa tttctcgctc tctaccttg agacgccctg caaatgtttt ccgtactaag 240
45 gaagatgttc gcccaatttt ctgggcaaac cgtccaaaaga gctacatata tagaacaaag 300
ggctggaatg acttcccaca tggacgttgg ggtgattcac acagtgcagc atacagtaca 360
ctttcgatt atcagtttgc gcgccccaaa ggacgtgaca agaagc 406

<210> 674

50 <211> 406

<212> DNA

<213> Arabidopsis thaliana

<400> 674

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gctcgtgccc actctcatcc tcgcgcggc gttgatttcg ttcattggac gtttaacctg 120
ttgatcaggc tcaatgtcga taattagggg ttgaaggatt tcgtaacct aagcagtcac 180
ggctttgtct agctcttctt ccacagattt ggcaatttca ttcttctgct cgaacacatc 240
gtccaagttc agctttggaa cacatgctct gatcacatca aagacgtagg ccttgatttg 300

5 ggtggttggg ttgctgagtc tgtaaaaagc atcacttgcc ttgtcagcta agactctgta 360
 ttgtatggat gcaaccactg tcacaaacac attgtccttt gttttg 406

<210> 675
 <211> 406
 10 <212> DNA
 <213> Arabidopsis thaliana

<400> 675
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 acattttctc ctgaaggctg tctctttcag gttgagtatg ccattgaagc tatcaagctt 180
 gggttctactg ctattggtgt aaagacgaaa gagggagtgt ttcttgacgt cgagaagcgt 240
 attacttcgc ctttactgga gccgagtagt gttgagaaga ttatggaaat tgatgaccat 300
 ataggttgtg ctatgagtgg tctgattgct gacgcgcgaa cacttggtga gcatgcacga 360
 20 gtagagaccc agaaccacag gttctcgtat ggtgagccaa tgactg 406

<210> 676
 <211> 406
 <212> DNA
 25 <213> Arabidopsis thaliana

<400> 676
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 aattgggttt gtttcttgat ttgtttcttg aattgggttt tgggtcttctt ttcttactat 120
 atttgatgat gatgatgggt caagatgagg ttgggagtga tcagacgcaa atcataaaag 180
 ggaaacgtac gaagcgacaa agatcgtctt cgacgtttgt ggtgacggcg gcgacaacag 240
 tgacttcaac aagttcatcg gccggtggaa gtggaggaga aagagctgtt tcagatgaat 300
 acaactcggc ggtttcgtct ccggtgacta ctgattgtac gcaagaagaa gaagacatgg 360
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<210> 677
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana

<400> 677
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 tgcacctgga gggtttcttt ttgagtgggt gtctgtgttt tgggacattt tcattgcaag 120
 gacgaatgag aagcattcag aggctgctgc agcttatata gaggcacaac aaggtaaagc 180
 45 gaaggagcag caaatgcaaa tacagcaact gcagatgatg cgccaagctc aaatgcagcg 240
 tagggaccct aatcatcctt ctcttggcgg tccaatgaat gctattgggt ctgaagggat 300
 gattgggcag tctaattgta gtgctttggc tgctaaaatg tacgaggaac gcatgaagca 360
 gcctaatacct atgaattctg agacatccca acctcatctt gatgca 406

<210> 678
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana

<400> 678
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 caagaagaaa agaaaaaac tacaaaaacag taaaatgtca aacacaagtt atgcaaaatc 120
 acgacgacag ttatgttttt gcttttagtt ataaagcgcc tcaattagag acagcctctt 180
 ctttctactga aggacaatgc actattgtga agctgccacc attcatcgaa ttctgtctct 240
 60 caagctcctc ttcttcttct tcttcgtgac tactaaaacc gatggcatca aatatcatag 300

5 tgttaacttc tctgaatctc tcctctgata aagaaacttc agctagtaac ctccatgcct 360
tctcttctga cgctccttca tagtcttctt tcctccggac gcgtgg 406

<210> 679
<211> 406
10 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
15 <222> (1)...(406)
<223> n = A,T,C or G

<400> 679
20 cttttttttt tttttttttt aagcaaaaca ctttttgatt tatttcattg atgaagcata 60
aaacaaatta caacaatata aagatatcat caaacgagga attttaaaaa caggaatgaa 120
atgtgagata tagaaatctc aatttaaaat gtgtaatctc taggcacatt tgaaaccaga 180
tggaaccttc ttaccacaat ggtttaggac aacgttcaaa gaaatgggaa cattaagggt 240
gataccaaga acattagcct ttagggcagt gcaaagacag accgcggcct caagatcaac 300
tagacctttg ataagagcgc aacngttgga cgttggtggc agagaaacct taaccaaattc 360
25 caacacgtta gcacatacct taagttaaag agcgtcttta caagtg 406

<210> 680
<211> 406
30 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(406)
35 <223> n = A,T,C or G

<400> 680
40 tctagagcgg ccgccctttt tttttttttt tccaaaagga gaatgggtgg ctataaactt 60
tctgttggtg cgtcattcctg ggatatccta acttatagat gcatgaccat acatagaaca 120
atctacttac actccactta atcttcgtcc tcacattttt gttgtctgaa atctcatcag 180
gtaggttttg gacaaacgat atgcacaccg ctaagaccac actgtggaac ttgtagtatt 240
actgagattt gcccttctgc cttcaagnnn nnnccgagca catcatccaa attgaagaaa 300
tctcccaaaa gtgtcatgtt tctcctatct ctggattgca ttgcgctatt ttgccaacca 360
45 atgcaccaca ttccttcattg agggaacaga tagtcatgag gataaa 406

<210> 681
<211> 406
50 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(406)
55 <223> n = A,T,C or G

<400> 681
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agaaagttaa cccaaggag cgtaatatgt tgttttctct cacaacagaa tcgatattga 180
tcaaatctac cttaaaagtt acatctcata ctcaaaataa ctcaaaagtt aaccaaactg 240

5 cgagattaca gctaaaactc agattaagca gcagcaccaa gaagctcctg atcgaaatgc 300
catgttccat gtcctttgcc aagtctccta agttgagaaa catattctga gattttctta 360
atggcttcca cctgttcgtt cagaaacaca ctctcaataa aatctg 406

<210> 682
10 <211> 406
<212> DNA
<213> Arabidopsis thaliana

<400> 682
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ctcttttggtt aaaaccccca caaaaactgg gagagcgatg aggaaagagg agattccaga 120
taaaagtcgg actatcccgga tcgatccgaa tctgccgaaa tgggtctgcc aaaactgtca 180
ccactccctt accatcgctg gcgtcgattc ctacgcgggc aagttcttca acgatcccc 240
tccgtccgct acgcagggct catctatcca tggagctaac agtggtcttg gttcaacacg 300
20 catggacaac tcttttggtt ttttacctcg acataagcct cctcaatctc agggcattcc 360
tccacgtcct cgcggggcgt cctcacctca gcctgatgct actcaa 406

<210> 683
<211> 406
25 <212> DNA
<213> Arabidopsis thaliana

<220>
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30 <222> (1) ... (406)
<223> n = A,T,C or G

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caagatttga cacacacaca tatatatata tannnagata cgataattaa ggcaaagttg 180
gagagagtga aggattagtg accttaagct ctccacagcc actaatgaaa accgtcttca 240
aaggctctatt ccacaaagat ctgcggtttt gagctctctc gtctccaaga aactccgcaa 300
aatcgttaaa ctgtttaata ttctccgacg gcttatacgt cggaatcgaa gaaatactcg 360
40 tcactacatc taatccttca agaacagttc cgaatacaat gttacc 406

<210> 684
<211> 406
<212> DNA
45 <213> Arabidopsis thaliana

<400> 684
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gtaaatatct caacaaattg tatttagctac gtacggaaaa taaacagata caaataatca 120
50 aatcatatac agacgaataa atcaaaatca aaccacaaaa atcgatcgaa tgagttcgta 180
catgtaacca gtttgaaatt tgcttagatg ttgattaaca ccaacggtga tagtgtctat 240
aaccttttagc caaacggtgt ggatacaggt gcaggtccag cgagtgcac agagcgtttg 300
atgcttccca taccgcatat gatacaaccg ggcgacgaaa gagcagcaaa cttagcacca 360
cagagatcac aaacatcgta tccaatagtc gataatctgc tgagcg 406

<210> 685
<211> 406
<212> DNA
60 <213> Arabidopsis thaliana

5 <400> 685
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cttctcgtac cgaaccgaac cgctcgtaac cactcaaatac acggttcagg tggctacact 180
acctatcggg catttcttgg ccaagggtgct tcccaaaacc cggtttgggt taccggttg 240
10 tggatcggcc cggttctcgc tgaaccggg tccgtttaac atgaaagagc atgtttgat 300
atcgatattt gcgaatgcgg gtagtgcttt cggatccggg tcggcttatg cggttggtat 360
catcacaatt attaaagctt tttatggccg gagtatctct tttatt 406

<210> 686
15 <211> 406
<212> DNA
<213> Arabidopsis thaliana

<220>
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<222> (1)...(406)
<223> n = A,T,C or G

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atcttggtgc caggatgaaa taagcacgac atcacaagta gagagacgcc gcgaatacaa 120
tgtctctttt gatcttggaac acagcttctt ctagttagc ttcaagctgt gtttctccta 180
tagattttgc agctactatg agctnnngca gaacttctc cattctcctt atcgctctga 240
tcaagctccc ttcgaaaaca cgagcaatct ccatgacctc atagaatttg gacccttttg 300
30 cccaagcata caccgcctcc attatatcag gtctgaaaga ctgcacaaaa ctctccacgt 360
ctatttcgac cttgcagtca agctgaactt cagctacacg cctggc 406

<210> 687
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35 <212> DNA
<213> Arabidopsis thaliana

<400> 687
40 attacatcgt atgttcatcc cactcttttg gtctttatat acaatgacct tgatttattg 60
aacataacac atctaaaaga atttgactct ctttttcttt tgtttttcaa aacaaagtga 120
tatatatatt caagaatatt ataagagctc tctacctta catggagcaa ccagactctc 180
ttcttcagta cgcttatttt tccagtgaac atgacaaaac ttcaaggcca agaactgag 240
tcctttggct ttaacactca agaacttgag cattctctgt tgatcttggc cagctacaac 300
cactggacca tccaacaca cccaagacta aatccacctt agcgcaaaaca ctaaccaaac 360
45 tttcaatggt tgcttctatt tgaaataaca ttactgctaa tcctct 406

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50 <213> Arabidopsis thaliana

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55 <223> n = A,T,C or G

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tcgaggcgac ggaggtcggt gtctagacag ccggctagta ataatcgtag tggttcaagt 120
60 aagggtgatt cggtagacaa caattcgagc cggcgagggt cggtttctag acaaccgaat 180

5 gagaggggta aggtcgagaa cagtgggtggt gtaattgagg gagatcgtga gaacgcgaat 240
tcgcggcgac gacggtcgct ttctgttgct cgtcgtcgga ttgagaattc tgagagtgat 300
gtagntcaag ttcagtattc aagcagttca agggatgtga agagcttcat gagtggaaag 360
agtcaaaata gtggttctca gaaatctgct gcttcagata atagac 406

10 <210> 689
<211> 405
<212> DNA
<213> Arabidopsis thaliana

15 <400> 689
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aagtttcaca tcaaaattaa atctcactct aggaccgatt ttcttggttc aactctcaaa 120
tacatcgggt cgttctgatac attgatttga gtggcaaaagt ctataaaccg gggtaatgcc 180
ttcccaaacy aaaccaaacg ggaccgaaat tctcattttt tgtgagcttc caaatcagac 240
20 attagcttag ccggttttagc ctttttctgt cgggtacttg catatgagta ccacacacca 300
ccagctgtgt tgaccactaa accggacacg ttcaaagcat gtacttcaac accaccaag 360
aggacaaaac cgagcgtagt ggaaccaacg cctttgagaa cacca 405

<210> 690
25 <211> 405
<212> DNA
<213> Arabidopsis thaliana

<400> 690
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actacgaccg agaaactgcc aaagttgatt aaagtagttg tcaagttgtt taacaacatc 180
aacaatatga agaaataacc tttgtgacat tcagaaccga cgatggaact ctctttcacc 240
atacaaaaga ttatcagaaa aaataatcat tgaacaaatt atgatgagca gtttctttat 300
35 caggggtgat tactgcgtga ccaagaatag agcctcgatg acttacgtga ttgctatttc 360
gagtgagttg gtgaataagc cgattgttgt aaactaataa attga 405

<210> 691
40 <211> 405
<212> DNA
<213> Arabidopsis thaliana

<400> 691
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ctattaattt caattttgat aatctgaaga acatcaatat catccatttt tattttgata 120
atatcatact tgactaggac tgagcataat acgcgagtct acgaaaacaa taacggtgaa 180
gcattataac aacaccaatt attcattaaa tctatgagaa ttcacgttgg tttcggttta 240
taaattctcg taatatattga tgtaagcaac ggaagaagtg ttggcatctt tgataagtgt 300
accaagaaga ggagcaagca aacatttctt gtccttctcc ttgtagaagt aacccaaca 360
50 cttgcaatca cgatcgact tagccttgca atcgttcaca gaagt 405

<210> 692
<211> 405
<212> DNA
55 <213> Arabidopsis thaliana

<400> 692
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60 gcactgacaa aagtatacac agcagctcac ataacagctt ccaagtactt gtcgttttta 180

5 acaaaagaag aaacaaactt gtatgaagca gctcacttgt cgatgacagc cttcaagaag 240
 tggagaacag gtggtcctag attccagaga gcttcaatac tcggaagaaa acgcaaggat 300
 tctaattaag ttccctataa ctctttctta tcataattat ccaatagggt gattgtagca 360
 tataacaatc tcaaaatgat gtaactgggt aacatacatt tgatt 405

10 <210> 693
 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana

15 <400> 693
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 accagcagct gtagctgtgt aatgtgaagc aacagcaagc gaaaagactc tgttaaactt 180
 aggaacagtt aaaaagtga tgacgatcac cagaagtccc agatgttgct gttgtgtctc 240
 20 cattcgccat aacattcaca agaatcaaac tcaatatctt caaagtaggc tcctctatac 300
 tattctgtac cattgtcttg taaattgagg atatgcagat tccatacatt ttgcaatgaa 360
 acactgtgat aagaaatatg ttgttacata tgtgtttttg actta 405

<210> 694
 25 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana

<400> 694
 30 aaattgtacc agagaatccc aatagctaca gagcaagaaa gagagaaaac ttcagattgc 60
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 ttgttcttgc atctgcctca gtcgatgatg ctgaagccaa tccggagtgc tataagattg 180
 aatgtggagt ttccttgtct ctttttgttt agtcttgttt atgaaaaatg atcctttcag 240
 agtattaaga gttgggttga ttgtcgaatc caagcctctc ttttgtcaaa ttgagtccca 300
 35 agcaggcgga tttttaccca acttgagtta ttagtgtaat caaatgggta ttgttaatta 360
 gtcaaagcct caaaggtttt aatttaaaaa aaaaaaaaaa aaaaa 405

<210> 695
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 40 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 45 <222> (1)...(405)
 <223> n = A,T,C or G

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 aagctcgtgg tcaagagaga gggattccga ctgtagtgaa cacatgggga gagatgaatg 180
 catctagaag tgttcttgct gcttccattg atgaccgggt aaggaatccg cttttggctg 240
 ttgcaagaaa agatggcaat gttgagggtta ttaacccttg taatgggtgat cttcacttct 300
 catactctgt atttgggtgat gatggttggt cccctganna tnncgaaatt tctgccttgc 360
 55 acttattcag gaaaaagata gatgatcaga cagaaagatc ttgca 405

<210> 696
 <211> 405
 <212> DNA
 60 <213> Arabidopsis thaliana

5

<400> 696

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	taatttggag	gagaaacttg	atgaatttcg	tctgtctttg	gggaaatcag	aaaaagatcc	180
10	gttaaggatt	gtaagtgttg	gtgctggtgc	ttggggaagt	gtttttgcag	cacttcttca	240
	agaaagctat	ggaggtttca	gggataagtt	tcagatcagg	atatggagaa	gagctgggag	300
	agctgttgat	agagaaactg	cagaacattt	gtttgaagtg	atcaattcaa	gggaagatat	360
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<210> 697

<211> 405

<212> DNA

<213> *Arabidopsis thaliana*

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<400> 697

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	agattcgtgg	gttcttctta	gtttcgacag	attcttgatc	cgttttagtt	gttacgctca	180
	tctttgcttt	tatacatcag	acccttctct	tctcttctct	ctttatctaa	gaaacattag	240
25	ggttcattga	aatcttgcta	taaaaaaatg	ggtgttgaga	aaatgggtgtg	tttggcttct	300
	cgcacgggtc	gtcagtttca	gagatacaac	aaaggtcgtc	gtcaagtcgt	tggatgtgtt	360
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<210> 698

<211> 405

<212> DNA

<213> *Arabidopsis thaliana*

35

<400> 698

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	aaactctcca	accgtaaaact	ccgtgtcgcc	gtcatcggtg	gtggaccagc	aggcggggca	180
	gctgcagaga	ctctagcaca	aggaggaatc	gagacgattc	tcatecgagcg	taagatggac	240
	aattgcaagc	cttgcggtgg	cgcgattcct	ctctgtatgg	tcggagaatt	caacttgccg	300
40	ttggatatta	ttgatcggag	agtgcgaag	atgaagatga	tttcgccgtc	gaacattgct	360
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<210> 699

<211> 405

<212> DNA

<213> *Arabidopsis thaliana*

50

<400> 699

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	tgcttaaaaa	tatgatgaga	gatgcttttg	atgccacttc	tcctctggtc	ttctcatctg	120
	ttatatattg	ttgtggtcta	tagatttcac	atttattttt	cgtaacatat	tttgattttc	180
	ataaataagg	tggaactcaa	gagagatgtt	gctgtaattt	tatttggccg	gagtctttta	240
	gattccggcg	agtttcagac	acttgtggaa	gacagaaggg	ttatacagtt	gttaaagcct	300
	ttttgtcatt	ttgtgacatg	gttgatttat	ttatatcatc	actctgtttc	gtttttgtct	360
55	gaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaag		405

60

<210> 700

<211> 405

<212> DNA

<213> *Arabidopsis thaliana*

5

<400> 700

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	ttcagtatgc	atcggtaggt	ccgaccaccg	caagatcgta	tgcgaaaccc	tcgccgacga	120
	ctcaacgata	ccaccttatt	acaacaactc	cgcggttagt	ccgagtgatt	tcccaccgga	180
10	atcttatttc	ttgtcaaacg	atgctcagct	agagtggctc	agcgacaacg	ccttctttga	240
	tcgtaaagac	tcacaaaaag	gaaactctgg	gattctcaat	tctaatacca	actcgaatcc	300
	aagctcgcaa	cggttcttac	taaaatccaa	agcgtcgatc	atcggtttgc	ctaaaccgca	360
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<210> 701

<211> 405

<212> DNA

<213> *Arabidopsis thaliana*

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<400> 701

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	aaatcttagt	aacgttctca	gccaatttaa	caaagctgga	aaatctcttg	tttcttcttg	180
	ttcttggtcca	aaacagagag	ggagagagag	ggtgacaaaag	aatgaagttg	tttcaatttg	240
25	ttcatctgaa	caaggattga	agttcttcaa	gagttttgcc	tttgggtctca	ggaaccata	300
	gagtcacgaa	caccactgtg	aatgcacaaa	ccaatccata	cagagtgaaa	gttctctccac	360
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<210> 702

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<212> DNA

<213> *Arabidopsis thaliana*

35

<400> 702

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	atcagcgact	ctctcactcg	ctcgtgtcgt	cgaagttgtc	ggttacgccg	agagcaagat	180
	caaaaccccc	catgcatttt	caggacttcg	agtgcacgatc	gactgtaagg	tgaataaagg	240
	ccattttgtt	acaaaaggtt	cgggaaacat	tgacgcacaaa	ggaaagtttg	gtcttaatat	300
40	tcctcatgac	attgtctccg	acaacggagc	gttaaaggag	gagtgttacg	ctcagcttca	360
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<213> *Arabidopsis thaliana*

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<400> 703

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	accagattgg	ttccaagttc	tgggaagtca	tctgcgacga	gcacggcatc	gattccaccg	180
	gacgttacag	tggagacact	gcagatctcc	agcttgaacg	tatcaatgtc	tattacaatg	240
	aagcttcagg	tggagatac	gttcctcgtg	ctgttcttat	ggatcttgag	cctgggtacta	300
	tggatagtat	cagatccgga	ccgtttggtc	agatcttccg	tcctgataac	tttgtctttg	360
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<210> 704

<211> 405

<212> DNA

<213> *Arabidopsis thaliana*

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 ttgagtacga caaatcaaca aagccccaca taaacaatga cagaaccaa gaaaaaagca 180
 15 tcttaatgta taacgacagt aatggtacaa gtattattag ctagtacagt gaacaacaaa 240
 tcaacacaat aatggtgaac tagttcggtg catcagnnnc atnnnagtag cgtataatat 300
 actaaagtgt gttttgttac cgggcctaag gtgtatggtc ttgtatggaa agtcctgttt 360
 tcttgatgga tatagtccag agaagatccg aatccgattc gactg 405

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 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana

25
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 ccaacatcaa ttactgcagc ccttggttt atccagttgc ccttaatcat gtgggcttgt 360
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 <212> DNA
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 aacatagcaa atcatgaact aagacatata gaggcttttt gtacgctcag tttagcttaa 180
 gtatcagatg gtttctctgc ggtttttcct tctttgttga tgtgaaagcc ttcaatcttc 240
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 agactgcaag ggagattcag ctcaaatct gtggcaaaac ccggacgata aaaggactgc 360
 60 gaggatatca gagtttggtg aaatgatcag agcagcttcc ggggt 405

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 <223> n = A,T,C or G

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 ttcgaatctc tcgtattgct atggagtctt ttcgtctctc tctccctaata gttcgggtggt 360
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 <223> n = A,T,C or G

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 ctttctgttg cattttactt tgggtgcacgt ttcggatttg gcaagaatga gaggaagagg 240
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45
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 <223> n = A,T,C or G

55
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 cagataagcg aagcaggtgc aatggtaaaa gatttgattg ggaggcttaa ttcagcagct 240
 aagaaaccac ctggtggtgg tcttgggtgg ggtggtggca tgggttctga agggaaacca 300

5 catccagggg gcaacttcaa gactaagata tgtgagagat tctcaaaagg aaactgtaca 360
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<210> 711
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 10 <212> DNA
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<220>
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 <223> n = A,T,C or G

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 ccaaaacggg gtaaaagaagg tgattgagta caaattcaac gaagaggaca aaaaggtcaa 180
 aatcactacc acgacccgtg ttcagaagcg agctctcacc aaacaagccg nggagcgacg 240
 gagctggaat aagttcggag acgcagctca tgaagaatcc agtagttacc tcacaatgcg 300
 ttcaacagag gatatcatct tggaacgaat tagagctcct ggtagcaacg cggaacagtc 360
 25 gaccgtatca ggagatagca tgtctcagtt gggcaaaccg ggtgc 405

<210> 712
 <211> 405
 <212> DNA
 30 <213> Arabidopsis thaliana

<400> 712
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 atcatctaag aaacgccgta tcgatttcac tgaatcttcg tctgataagt cttcttcgat 120
 35 tttagcttct ggtagtagca ggggttttca cggcgatagc gtcggttcagc aaatcgacat 180
 ggcttttggg aattcgaacc gtcaggagat tgatgaagat ctgcacagtc gccagctcgc 240
 cgtctatggg cgtgagacta tgaggcgtct ctttgcttcc aatgtttctca tctcggggat 300
 gcacggtctt ggtgccgaga ttgccaagaa tcttatactt gctgggtgtga agtctgtgac 360
 cttgcatgat gaaagagttg tagagctatg ggacttatca agcaa 405

<210> 713
 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana

45 <400> 713
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 caaaatctcc atgctttgaa ctaagcagaa ttcatctggt cttttatctc tttcatatca 120
 aaccaaagga ttgatctatc catatcgctc aaaaacctata tctagctaag cctagaactt 180
 50 ctctatcggt taccactttc tttctatat tcttctgaat ttgtaacatc agaagtaata 240
 atgattccaa gtatggaggg aggcgggaag actaacagag aagaagagga ggaggaagag 300
 gaagaagaag aagaaggtga agagagtaag gtttcaagca atagtacagt ggaagagagc 360
 gacaagaaga ctaaggttag gccttatgtg agatctaaag tccct 405

<210> 714
 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 714

5 cctttatttaa agaccatcat gtcttccact tctttcaccg accttcttgg ttcttccggc 60
 gttgactgtt acgaagatga tgaagacttg agagtttctg ggtcgagttt tgggtgggtac 120
 tatccagaga gaaccgggtc tggtttacct aagttcaaga cggctcaacc accacctctt 180
 ccgatttcac aatcttctca taacttccact ttctccgatt accttgattc tcctctgctt 240
 ctgagctcct cacacagttt gatattctcca acaacaggaa cgtttccatt gcaaggcttt 300
 10 aatggaacaa caaacaatca ctgagatctt ccctggcagc tacaatctca accatcaaac 360
 gcttcttctg ctttgcaaga aacatatggt gttcaagatc acgag 405

<210> 715

<211> 405

15 <212> DNA

<213> Arabidopsis thaliana

<400> 715

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 20 cttcgtattg acccattggc agctgacgct ctgggttaata gaggaatac ttacaaagag 120
 atcgggaggg taactgaagc aattcaggat tacatgcatg ctataaactt ccggcctaca 180
 atggctgaag ctacgcaaa cctggcctca gcttacaagg atagtgggca tgtagaagct 240
 gccattacga gctataagca ggcttgcctt ctacgaccag acttcccaga agcaacgtgt 300
 aaccttctac acaccttaca gtgtgtatgc tgttgggagg accgtagcaa aatgttcgct 360
 25 gaagtgaaga gcattattag gaggcaaata aatatgtcgg tcctt 405

<210> 716

<211> 405

<212> DNA

30 <213> Arabidopsis thaliana

<400> 716

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 35 agacatcttt tgtaaaactc ttaagatcgg ttaagaggga aacacttaag ctgatagaaa 180
 cctttttaga caaagctgaa gaccagccac acatagggaa acaatttgtg ccgccaatga 240
 tggaatcagt acttggtgac tatgcgagga atgtgcctga tgctagggaa tccgaagttc 300
 tttcactctt tgcaacgatt ataaacaagt acaaggcaac aatgttagac gacgtgcctc 360
 acatatttga agctgtattc cagtgtacat tggagatgat aacta 405

<210> 717

<211> 405

<212> DNA

<213> Arabidopsis thaliana

45

<400> 717

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 ctagaaatcc attgatgcaa aggaagaatt caacatctgt tgtgtccaaa caacaacaag 120
 gatcagaaga agaaagagga cttattaacc aaaagattag agagaaaaat gaagctgtaa 180
 50 ctatgtctga gctcactgtt tgtcttctca tggaccgttt tgttccttgg tgatctttcc 240
 atacccaact acttctagat ctcttctttg gtgatgtgta tatatatatc tagaaactac 300
 atgtagtatg tctatatatc agattttgtt tgtgcagacc atgtttttta gtttccttgt 360
 aaacctgtga aagtaatgtg tttggaaaca tttttttatt acttt 405

55 <210> 718

<211> 404

<212> DNA

<213> Arabidopsis thaliana

60 <400> 718

5 tatcaagttt gcaacaacat ttattcacca ccacacataa gagcacattt aaggtgaaaa 60
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gagaaaagca aatcaagcag cagcaacaac tgtcttgtgc ttctcgagat tggcaatgat 180
ttcttctttc gcagcaccaa ccacagtctc cttgatctct ccttctttca tgaagataaa 240
cgttggcatt gcctgaactt taaactctc agcaacagtg ttcaattcgt caacatcgac 300
10 cttgaagaag actacgtcga ggtgcttctt ggctaagtca gcaaagacgg gtgcaatgaa 360
acggcaaggt gggcaccatg ttgcagtga gtctatcaca atca 404

<210> 719

<211> 404

15 <212> DNA

<213> Arabidopsis thaliana

<400> 719

gagcggccgc ccgggcaggt actcgtatag atcaaacgag atcgtcttca agataatcat 60
20 acacggagat actaagtttg tctctctct ccatattcgc catggaagat ctctcttcac 120
aatcaccact cccagacaca gcaccatgga atccggcgtc caccggccatg ccggcgctcg 180
aagcagcttt ttggatggac ttaggagata tattggaggc gagggaggtt gtaagtaagt 240
gagggaaagt aaaagattcg tcgtcgaggg aagatggtcg gtgcaagcag taaaaagcga 300
cgtcgtgggc tacggcagcg ccttctgcgg tggagaaaga gcctaaccag agacgttgac 360
25 gagttcccg gacacgaatc tctgataccc attttcccca tttc 404

<210> 720

<211> 404

<212> DNA

30 <213> Arabidopsis thaliana

<220>

<221> misc_feature

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35 <223> n = A,T,C or G

<400> 720

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cgggtngatt tgatccatta gccggaggag aagagtcttg ttttgctggc ttgagtatga 120
40 cgaatctaca gacaggacat tgtccttttg tctttaacca tggaaactata cattcctcgt 180
gaaacatgtg tttgcaagga gtgagcatca ctgtttcctt gggctcgaag tcttctaaac 240
acacggagca tcttttgtcg tcttcttcac ctgagagatt ttgagtgttt cttgannnnn 300
cgcttcccg gtttttgttt ctgtagtata agctcaggct tctgagaagg gtgctttttg 360
gaactgggtt atatgtttct tttgttagat gtttgaggat ctcg 404

45

<210> 721

<211> 404

<212> DNA

<213> Arabidopsis thaliana

50

<220>

<221> misc_feature

<222> (1)...(404)

<223> n = A,T,C or G

55

<400> 721

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ctgagaggaa gcttcaccct gaaaagtta agaatacagc ggtaatacag agtacgtatg 120
taaagcttgg ttgcacgcaa ggatggtttt gtgcctctct tttccaccct gcttcacgga 180
60 atatagctca gcttgccaag gttaagattg caactagaaa tggccagtgg caggacctcc 240

5 acataccaca tagcatcagg tccattgtat gtctgaatct gccagcttt tcgggaggat 300
 taaatccttg gggcacacca aatcccaggn nacaacgtga tagaggcttg actccacat 360
 ttgtagatga tggcctcatt gaggttggtg ggtttagaaa tgct 404

<210> 722
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(404)
 <223> n = A,T,C or G

<400> 722
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 aagaccacca tcttntcctc ctgacccttc aggacgtcc tcaccatttc caccaccgcc 120
 accactgcct cctccacgtg gaggcattgt gccgccactg tcagtatcat aaaagtcttt 180
 cttctgtatc tgctctcgca acatatcttc aaccgatttc ttccccatag ctttctctat 240
 tgctttccat ggcgatatct catcactacc atcagggtta tctttccac caaataagca 300
 25 cacagcagaa ctttgtttcg atttcccagt aggtaaacga cggcgatgat caagaagagg 360
 cgaaaactga gtagacactg cagacctgcc cgggcggccg ctcg 404

<210> 723
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

<400> 723
 35 cttttttttt tttttttttt tttttttttt tttttttttt tttttattat tgttaacttc 60
 tttttattaa gaactctcct ttattaattg ggacaaagca aacttgcaca tgaaaaaat 120
 cagaaggaaa caagacgtaa ttaaaatttt acaaacatag atatatgact attgattgca 180
 tgcattgaacc attgattgat caacacacac aagtttcaaa tttattacaa taaaacgcaa 240
 acaatacttt gaaaatgatg agaaagcttt ctctgcttgg attctctctt tcactctttg 300
 tttctcttat tacaatcacc agtactggtt tcgtcttgte tttgtcttct tgtgtacatc 360
 40 gtgttctccg tgatagagat atctaatagt ggtcggacgc gtgg 404

<210> 724
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

<400> 724
 50 cttttttttt tttttttttt ttttaggttt aactttttat taatggggat aattttgggt 60
 tcgaacaaga gagcaaaaaa gataaaactg taaaactgct aaagaaaaaa gaagattctg 120
 ttggatatgg tgaagaagag aaacgctcct actcaaattc cgaaacaaaa ctcatgagat 180
 ttctacagct cgtcctttgc ggcggtttcc tcggtcttct taggttctc actcttggtg 240
 gactcttctc catgagaagt tggcttcttc tcaactgttct tctcaacgaa gtttatgaag 300
 tcttcctttg tctgtctcct ttcgtacact acaacatttc cgctcgtctga cctgaagtaa 360
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<210> 725
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

60

5 <220>
 <221> misc_feature
 <222> (1)...(404)
 <223> n = A,T,C or G

10 <400> 725
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 ctaccgttgc gtcgtgctca gaagggcctc ctttagatgg ccatccagat tctgtgacca 180
 cgattggaat gttggtgaag ttaagataag acattgcaaa ataagcagcg tctangattg 240
 15 catcaaaaac gtttgtgtaa tgtaacaatg tgttggcgctc tacagcttct ttgnnggctt 300
 nnagaggctg gaaaagcgcg tagtcaagcg gtataactcc attggactga acatagtcga 360
 aatacgggta aacgttgagc agcaatggcg atcctgtgga ctgt 404

<210> 726
 20 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

<400> 726
 25 gtacaatgac tccttcttaa tctcagatct gaggcaggac cgatcaaaag gaggattcgc 60
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 agtctggaac cttctcaact ttcataaggt taaccaaggg atctacttta cttggcagaa 180
 ccaggctggag aacatagcta tcattacgga gagcaactct cgttgatgga gtgagtttcg 240
 ttatgtctat acttttgtca atatcgacaa catacttccc ctctggatga accttaacca 300
 30 agaccttgtt ttttcccatc acttttacca cttcaccac ataggacca ggttcttgaa 360
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<210> 727
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 35 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 40 <222> (1)...(404)
 <223> n = A,T,C or G

<400> 727
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 ctggagtcag ctccaccaca tctcccatct tcagcttgca tttcagatca cttacaggtg 180
 tctggttaag tcttggcctt agctcttctt ttgccgggat gctgtacatt gaccatctcg 240
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 gcacagtcac cttctcattt tcgnnnacaa tcacatagac tggtnnttct tggttaccac 360
 50 taggcttata tgaaaacgga cagtcttctg cgtgagacgg gaaa 404

<210> 728
 <211> 404
 <212> DNA
 55 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(404)
 60 <223> n = A,T,C or G

5

<400> 728

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tcaggtggtg	atattcttgg	caatgcaagc	agcgcgcttg	gacatatgag	tcaaggcata	180
10 gctgcattat	caatggatan	nnaattcatc	caaagtcgac	agagacagga	aaacaaaggt	240
gttgaggact	ttggcgatat	tatcagagaa	ggaggtggag	ctctagcgnn	nggcctgttt	300
agaggagtca	caggcatatt	gacaaagcct	ctcgaaggtg	caaagtcttc	tgggtgtcgaa	360
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15

<210> 729

<211> 404

<212> DNA

<213> Arabidopsis thaliana

20

<400> 729

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aacttcaact	gttgattata	aactactgac	cattacattt	tgcttcgtaa	aaagggtaaa	120
acagaaaacg	ttacattttc	ttattttttg	aagctgggaa	ataccattgt	aatcaggcac	180
ctttttgtgt	gtatatacct	ctttaacacc	gtcaaaaatac	tcttcttggg	ttgggtccat	240
25 agaaatttac	ttgtgttcgg	aagctgcaag	gagcctcggc	tttggttaacc	aatactgctc	300
gaacctttgt	cttgcatact	ccatgtagtc	aaagtcgatt	tcattcacat	gttccgatat	360
aattcccat	aaaccccaaa	ttagatgact	agcaagtgtg	tatt		404

<210> 730

30

<211> 404

<212> DNA

<213> Arabidopsis thaliana

<220>

35

<221> misc_feature

<222> (1)...(404)

<223> n = A,T,C or G

<400> 730

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aaggaccaat	tactgccatc	ataaatgtgt	ggaagaccca	aaacagaatg	ctcctcatga	180
tatcaaactt	cgcttagaga	ttgatgttaa	tggtggcgag	acaccgaggt	taaatttgga	240
ggagtgcagt	gatgagtctg	gtgataatat	gatggacgat	gttccccttg	ctcaacgata	300
45 ttcaaagtga	cactatgacg	aggctacgga	ggatagctgc	agccgcaagc	tcgaagctgc	360
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<210> 731

<211> 404

50

<212> DNA

<213> Arabidopsis thaliana

<400> 731

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55 aacaaagttt	aacaatggca	gatgatgaac	aaagctcact	aacttcaaca	atggccataa	120
tgaacaaaca	acaaagaggt	aaagaaaaaa	cctccaaaac	tacttgacga	ttaatcacac	180
agtcgttaaa	caaaactcga	accatccaca	ggtatgaatc	cggtttggtc	ttctttcatc	240
gccttctagg	tggtgagcat	tgaggttggt	gattccatga	ataagaacat	tttcgcagtc	300
acgatcgcac	taacatatta	aacaccgggg	aaaacaacct	ctacgcgtct	ctcatgctaa	360
60 tgttttagact	atttctcatc	gtccttcttc	caacaccagc	attt		404

5
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 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

10
 <220>
 <221> misc_feature
 <222> (1)...(404)
 <223> n = A,T,C or G

15
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 tctgnangca atcacttggc ttgtgcccc gcatcaatga agaggttggt agcattgagc 180
 20 agtcgattgg cagtcacatc taagatgaag ctagcaatct cctctggctg accggcagtc 240
 tcagccaatg tcacctgctt ggcaaatgca tcagcagcgt caaacagacc aggatcgata 300
 ttacgtagac catcagtttg aactggccct gggttgactg tcagcactcg tacattctgc 360
 tgtgccgctt cgggagctac actacgagta tagttgtcta cgaa 404

25
 <210> 733
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

30
 <220>
 <221> misc_feature
 <222> (1)...(404)
 <223> n = A,T,C or G

35
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 aaatacaatc ctctaggagc atattcattt gatcaaatac ttacggctac ataaaacttg 180
 gacaaaactt attttgtttc agtagtagat ggtaacaaag ggcttcctta aaaagctcaa 240
 40 catttgactt ccaatcactc acatagacca cacttcctta agaagctcat atcttgaaat 300
 tgtcaccctt ggccctatct tctcagcttc ctgcttcaca ttcttgccct gtgcggaaat 360
 tggtgacagc gatacgtttt caatgatgga tgtaagagga gaat 404

45
 <210> 734
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

50
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 gtagtaaaaa aagaaagtta acaacaaaaa aaatgaattc aagcaatcct acaaaatggc 180
 caagttctag tgaaaactaa atttggtaaa aattaacaag tcacactgag gatgtatcga 240
 tgagaacatc gtttagcaca tcactctcgc cattcgccat agcgagcagc tccgcatctc 300
 55 tctcttcctc gttggagaag tctctccttt cgaatttcga gttagcggat ataaagatca 360
 gcttttgagc tcgatccacg gctgcgcgtg atcttccatt cgaa 404

60
 <210> 735
 <211> 404
 <212> DNA

5 <213> Arabidopsis thaliana

<400> 735

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aaaactttatc attattcttg caaacgcgta taagagcagc aaattcattc aaaggaggaa 120
10 catagactcc ttagaatacc tgaacacaat aggtttactg atgaatatga aacaattatt 180
ctgaaagtct agagaacaag cttatttcctt cttcaagggtg tcttcaactt ggggcgcgat 240
ggaagcaact gataacaaga gataagttag gtggtaaacc cgaaagcacc agtgacacga 300
ggactaatcg tctttggagc taactgaagg agaccaatgg ctacaataat gtccatgctt 360
gatttaatatca aagctagagt tctgtcgttt gattttctgaa gctt 404

15

<210> 736

<211> 404

<212> DNA

<213> Arabidopsis thaliana

20

<220>

<221> misc_feature

<222> (1)...(404)

<223> n = A,T,C or G

25

<400> 736

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ttgagattgc tcgatcaagc tttgcggcaa cagaaatcgt atcgccaaat gactcttggt 180
30 gacgctcatc cttggcgnc cacaacgcggc ttgcctgaac gcgcagtcac aacgttgaga 240
gctnggctct ttgaacactt tcttcaccca tatccgagcg atgttgataa gcatatattg 300
nccccacaaa ctggtttatc aagaagtcag gtatcaaatt ggttcattaa tgcaagagtt 360
aggctatgga aaccaatgat tgaagaaatg tactgtgaag aaac 404

35

<210> 737

<211> 404

<212> DNA

<213> Arabidopsis thaliana

40

<400> 737

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tctgggcagc ttggaccgtt tactgcatgg gagatcagat gggcctcctc ttgattggaa 180
cactagaatg aagattgcac tatgcccagc tcaggggtcta accttcttgc acgaagaagg 240
45 cccttttccag gcaatgtaca atgaattttc gacgggcaa atccaagtcg ataaagattt 300
cagcgccaag ctatcaggat acggttgtgc aggccatgcg cctgagacag agacatctaa 360
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50

<210> 738

<211> 404

<212> DNA

<213> Arabidopsis thaliana

55

<400> 738

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atcctacaca aatccataat catggccgcc actgcttcct ccgaagcttc tgaaggacca 120
gtgatgggtc tcatcaacaa gcgtctccgt gctctccgta agaaatacaa tcgaatcact 180
caaattggaag aatcgatttc tcaaggcaaa accctaaaca aggagcaaga agaagtcctc 240
cgctctaaac ctgccgtcgt catcctaata gacgagcttg aaaagatccg tgctcctctc 300

5 tccgccgctg tgacagagga aatcagcctc gctactcagc ttaaccgtgc ttcatccgat 360
caaaccaccg catctgagca aaaggaagtc actgatatcc cgca 404

<210> 739
<211> 404
10 <212> DNA
<213> Arabidopsis thaliana

<400> 739
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aatacagaag gagatgggag tgttggaagt gatcttgaag gaatccgtaa gccaaagaag 180
atgaagaaga tgagaagcag gaagagtgat gataaagaga cgaagaagaa gaagaaaaag 240
tattggatgg gttgtctcag agctgaatca gacgaaagtg gaaacgtcga tttgactgtt 300
gatttccctg gcgaacgcac tgagccgact cacctagtcg tcatgggtcaa cgggtctcatc 360
20 ggcagtgtctc agaattggag attcgccgct aagcagatgc ttaa 404

<210> 740
<211> 403
<212> DNA
25 <213> Arabidopsis thaliana

<400> 740
30 cttttttttt ttttttatgg agaagcgaag ttactcttct cgaattatga taaaaagtta 60
catcaacaca ggattatctg tttttttcac ttgataaatt tgcattttta aacacacttc 120
atggataaaa cggtatcttt cttgccactc ttcttaagtc cagaacctcc aaaggatccc 180
ttctgcgatg cttggctctt aagctcttta agggcctttt cctcatcttt cttcttctga 240
atgttagcta agtcagcttc gtcgtattcc ttcttatcag ctttaggctg cttcaaagggt 300
ttcgcctttt ctcttgcctt ggaagacatg attgggttcg tgagctagggt ttcgatgttg 360
agctcaaaat tggggaaaaa gtgactgaga gtcggacgcg tgg 403

<210> 741
<211> 403
<212> DNA
35 <213> Arabidopsis thaliana

<400> 741
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aacagaaaaac tttgagagta aaggcacata ataagacaaa gaagaggtaa aataaagtct 180
45 agcaagcctt acagcttcgc ctgcaatagc caggaagctc tgtagttcca accatgtact 240
ctggattctt tgtgcattcc ccaagaactg cccatctctc acagctctcg ttcatatccg 300
tgcagtttcc gcttgggtgc acgatccctat caaatgagtc tacgtggatc cacttgggtg 360
ccgaccattt ctctccttct atcacaggac atccaccgtg aag 403

<210> 742
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<212> DNA
50 <213> Arabidopsis thaliana

<400> 742
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ttgaataacc ggcatagaag ccacctccaa caacgaccag aatcccatct ttttatgttg 180
ttcttttagac taatgatcaa gggattatat attatggctc aagctccta ctcttcttct 240
60 tcttctttct tcttcttct gcagttatct gcagagaatt aataagcaga agaagcagaa 300

5 tgattaaaca ataatttgtg gaattgagac atgccagagt tttgagtatt ttgagaccgg 360
tatcattgga gtagtagcac gaacttgtac ctcggccgcg acc 403

<210> 743
<211> 403
10 <212> DNA
<213> Arabidopsis thaliana

<400> 743
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15 gctatgagtt cgtcgtttca ttgagattat acacaaaaca agattataac ttttctgctg 120
ggttttggag actatggctg gtggtaacga agtcaacctt aacgaatgca agagaattgt 180
cccactcaac acatgggtcc tcatttccaa tttcaagctt gcttaciaag tcctccgctg 240
ccctgacggt tctttcaacc gcgacctcgc tgagttcctt gaccgtaaag ttcccgcgca 300
cgctttcccc ctcgacggcg ttttctcctt cgaccacgtc gactcaacaa ctaaccttct 360
20 caccagaatc taccaacctg cgtctctcct tcacagacc cgt 403

<210> 744
<211> 403
<212> DNA
25 <213> Arabidopsis thaliana

<400> 744
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gataagctac ggattcactc gtcggatgat ttgaaagttt ctgaatcaaa cagagtattc 120
30 tcaatgcaga gaacctctc acttgcggtt gctaagtctt cttcttcgac ttcagttctg 180
tctcttcctc ctctcatggc taagttgcag tgcagggcga ttcaaaattt cccagcttcc 240
tcttctctct cagtagttcg ggtcgataga gtgtatagaa atgtatccca gcttcagttt 300
aaaagagaaa attcaagttg tcttaagtta gcttgtgcac ttccttcgca tctaagtctt 360
ctcggttctc ttagttatgc aacacattgg agcagctcca ctt 403

35 <210> 745
<211> 403
<212> DNA
<213> Arabidopsis thaliana

40 <220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G

45 <400> 745
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ggaggaaata tggcaaaaa gttgtcaaag gaaatactaa tccaaggagc tactacaagt 180
50 gcacattcca aggttgtgga gtgaagaagc aagtggaaag atccgcagca nnnagagag 240
cagttctcac tacctatgaa ggaagacaca atcacgatat cccaaccgcg ctacgctcgt 300
cgtgaaatta ttgggactta gtcactagta atatgattta ggctttctaa aaacaaaaaa 360
tcttactatg gcttatcttt tgtgctcatt cacagtttgt tta 403

55 <210> 746
<211> 403
<212> DNA
<213> Arabidopsis thaliana

60 <400> 746

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 atgttaaatt tcatgttcat cagaagatca taattagtag taagtaggtt cagacgtgta 180
 gaagaaagga ccagcccagt aaagcttgaa gctcttgct tgaagaatac ggtacgtgct 240
 caatggctgt cctctaacac ctttgttcac atcggtcgga aaatcgcaat cagcgagtgg 300
 10 agatttgtaa aggtaagttt tgcatttggt cactgtcctt cctgcacgaa gctgcgaagg 360
 gaatatcgtg gcgatgaagt aaccttttagc atcagttttg ctg 403

<210> 747
 <211> 403
 15 <212> DNA
 <213> Arabidopsis thaliana

<400> 747
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 cgtcaagggtt gggactgcag ttgttactgg gaaagggtgga agattggctc ttggacgttt 180
 aggagctatc tgtgaacacg ttgcggaggt aaactcagat ggatttgagg tcattttggt 240
 gtcactctggg gccgttggtc ttggtcgaca aaggcttcga tacagacaat tagtcaacag 300
 cagttttgca gatttacaga agccacaaat ggaacttgat gggaaggctt gtgctggtgt 360
 25 tgggcagagc agtctcatgg cttactatga gactatggtt gac 403

<210> 748
 <211> 403
 <212> DNA
 30 <213> Arabidopsis thaliana

<400> 748
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 atgaaatgac atctttaata tctgctttta aattgaggaa tcaaaacaga ggaggaatac 120
 35 tctgttcggt cctgaagaaa tttgttggtat caatcttccc ttttaaccaa cccaatctct 180
 tgaaattacc tttgaaatac atctcacccc atttctctgc atcttcgaaa ctctgtgttaa 240
 tccctttggt cgagcccaaa tcaagatctc tgtaattcaa ataagctcct ctccggcgatt 300
 tagaaacata cggagtcatg taatcgtgta acgatctcat ccacctgaca tgtttgttca 360
 40 tctcctegac ttcattcact ttccatttca ccatgtacct cgg 403

<210> 749
 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana

45 <400> 749
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 gctccctaata gatgacactc tgctccaaca gatcaagagt gggtttgatg atggaaaaga 180
 50 tctagtgggt agtgtgatgt cagctatggg agaggaacag atcaatgctc ttaaggacat 240
 cgggtcccaag tgagactaac aaagcctccc ctttgttatg agattcttct tcttcttctg 300
 taggcttcca ttactcatcg gagattatct tgtttttggg tgactcctat tttggatatt 360
 taaacttttg ttaataatgc catcttcttt aacccaaaaa aaa 403

55 <210> 750
 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 750

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cattaaaaatg ctaaaaaacta ttagcttatt tatcaaaaaca cacaaattaa aagggtgaaag 120
caaacctata cactaaacgca aacaaatggt cgaaacacta atcaaatttc acagtctctc 180
catcgaaaag actccaaagt tgatcaacgt caaaagccaa ggtgtccccc ttttctgttg 240
tcgtcgcttc aggaaccaaa atatctacct cttggctttc ctctaggaat ttctctaacc 300
10 acatattatc tccatcaatc aaattattca ctagtgtgtc tttcttctta tctttgttgt 360
atatgatact attgtcacaa acattattga tgttaagtcc aag 403

<210> 751
<211> 403
15 <212> DNA
<213> Arabidopsis thaliana

<400> 751
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gagaagacca aaaccgagaa gagaaagcca gcagctgttc ctgccacaa aagaaccgga 120
gccagctaca acggtccaat gccaccagcc aaagccgggc gtatcacaaa cgcatacgtc 180
tcttccttcc cgttcacag atcacctca ttgtttcttt gcttttagta taagtagttt 240
acttttata gatcaaaatg cgaaagaata gttgttttct caaacttttc cacatgaaaa 300
agggttccaa aagagaaccg tatttcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
25 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 403

<210> 752
<211> 403
<212> DNA
30 <213> Arabidopsis thaliana

<400> 752
35 agtagtaatg tccacttccc tatcttggac catgatgata acaaagaaac tgcagcactg 60
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gatgctctct tccctgtcca aagcaactct gaatatattc cagctgctac tctcatctac 180
ataccacaag tttgttgtc tcaatcagac cagagaaaaa tgtagaaaaa aaatttacag 240
gagaaagtac tggtcctaag ttcttggcct ggtcacaccg gcctttctat atacactctt 300
tttgcaatcg tcaatctgtt ttctactac ttcaagatgc ataggagaca cgagtttttg 360
40 tgtttccttc gctgttcttc ttccagcccc atctcctctt atg 403

<210> 753
<211> 403
<212> DNA
<213> Arabidopsis thaliana

45 <220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G

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agacatgtc accatgtttt tccaggctga tggaaactttg aacgaagcag ctatttcctaa 180
55 tgtgacaagg gccttacagg atattgatgg agtttccaat ttaaagggtc aggtttctga 240
aggtgttgcc gtcgttgagc ttttgaagca aacaacgggt caagcaacag gagtggcgtc 300
aaacttggtg gagactatac aaggagctgg atttaagtta cagannttga atctgagttt 360
tgaagatgac gatgaggttc ttgtctagt aaatcatcct ttt 403

60 <210> 754

5 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana

<400> 754

10 ttttttttgtt tcaaattgat ttaccatata aagatggaaa aatattactt tttgtaccct 60
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 attagctctg aacttcattg aatttgaaga cacagtcata gagccgtcct ccgagaaact 180
 ctgctacttc aagatgcttc accattccaa tcttgagaga atcacacttg aactgagcat 240
 aaaggtttgt ctcaattcca cgacccatgc cttctacgat gactaagtcg gcatcagatg 300
 15 aaaggtaagc aagctcctgt gatactcttg agagatcgat aactggtaag tcattccccg 360
 aatttgcaat cagaagcttc gaagtatcaa cacctagcaa ttg 403

<210> 755
 <211> 403
 <212> DNA
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<220>
 <221> misc_feature
 25 <222> (1) ... (403)
 <223> n = A,T,C or G

<400> 755

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 aaanaaatca agaagaagac gaagaagaaa aaagaaagag tcagtgaatt aacaaaaatc 120
 aagaagaggt tcggttaata ctaagtcctt gaaagagcca atgaggtctc ttcttctctc 180
 gatccaacga cgtcgtactt gagctgctca taggcgtgtt tgggtccgcta ctttcttggt 240
 tattattgct gttattatat agattattat tgctctgatt attacaatta tccgatgatg 300
 atctcattga cgttggtgac gagtagtcca tgtccttggt cgttggtcgtg gtcatagtag 360
 35 tagatgaaga agacaatcca atgctcaatg tcaattcgag ttc 403

<210> 756
 <211> 403
 <212> DNA
 40 <213> Arabidopsis thaliana

<400> 756

45 ttttttttttt ttttttttttt aatccaaaca aaatgcatta ttatatattaa tttattttttc 60
 gaaatacaat aggggctcga tatgaaatca aagacaaagg agattattac atcaatgtga 120
 ctaaacaaga cccaatgtct caaagagagg tgctatagaa cttggtggcg aaagaaaggc 180
 cttcctcgga taacacgtca agactctcaa cggaagggtg tgctcgtgcc actttagcaa 240
 tagccttggt ttctctctga gtacctcctt ctaggaacac tcctactact ttcccatctt 300
 taaccaata cgtcccaaac tttggctttg gagatttcgg gtcattatct ccaaacagta 360
 cagattctcc aacgttttcc ccatagaatt cccacgatag ttt 403

50

<210> 757
 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana

55

<400> 757

60 tataaccgga gatccttcgg gtattctcag ttcttgggaag aaaggtagcg cttgttggtc 60
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 agccgatgtt gctggaagct tcctctccgg cactctctcg ccgtcgttgg ctaaactcaa 180
 gcaccttgat gggatttact tcaccgatct caagaacatc actgggttctt ttcttcaatt 240

5 cctttttccaa ttaccaaatac ttaagtacgt atacattgag aataaccgtc tctctgggtcc 300
tcttccgggt aacatcgggt cgctaagcca gcttgaagcg ttcagcctcg agggaaaccg 360
gttcaccggt ccgatccccga gctcgatatc taatttgact cgg 403

<210> 758

10 <211> 403

<212> DNA

<213> Arabidopsis thaliana

<400> 758

15 aagaagatga gttctctcat catcatcttc aacattctcc ttctcctcac aactcaaacc 60
cacgcgcaca acgtcacgag cctcctagca aaccacccat cattctcttc cttcagccat 120
ttcctaacac aaacacacct cgccgacgaa atcaaccgga gaagaaccat aaccgtttgc 180
gcagtagata acgcccgcct gtcagcatta acctctaaag gctatacact ctcaactctc 240
aaaaacattc tctccctcca cgctccttta gattacttcg gaaccaaaaa actccaccag 300
20 atccgtgacg gctctgctct cgccgctact ctgtttcaag ccaccggagc tgctcctgga 360
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<210> 759

<211> 403

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

30 <222> (1)...(403)

<223> n = A,T,C or G

<400> 759

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35 gcaataaaca aaacagtagc tagcagcagc agcaacacat gaactcgtgc aaatccctta 120
tccgtgcctc aatctcttcc tttccatttg ttctcttcc aaaccctaata ttctctatca 180
ccttcatctc cgttcgcgcc ttttctcctc tctctgtcct tcatccaaat tcatcatgta 240
ttgtaacagc tcgacgcaca tttcatggag ctgtggctct ttcaccggag agcttaacgg 300
aagagtctcc caaggatact gtgaaaggat tgtaacaac caatcgtggt gaggcctcaa 360
40 gcttgatgaa gatggagcgg aggtgtagct taagcaatgg tga 403

<210> 760

<211> 403

<212> DNA

45 <213> Arabidopsis thaliana

<400> 760

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gttttagttta aagggtacgg aactgacctg agagggttga tttgaatcta aaaagggtta 120
50 gttttttgtt aagtttgatg gggacaggga attctaaaga aaactggaga cagtcacgt 180
ttaggtcaac ttctgcttca tcagcatcac catcttcac ttcatgggct tctcaacaaa 240
gttatcctca gtatggtgca gaaagctata attaccctcc tccaccttct tatgcccaac 300
ctcctgagta tacgcaacct cctcctcctt tatatagtac tcagccttac tctgctcgt 360
cttattctgc accgccttct caaagttatg gtagtgataa taa 403

55

<210> 761

<211> 402

<212> DNA

<213> Arabidopsis thaliana

60

5 <400> 761
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 agcataggtg gcattcgttc cggcatcctt ggtttcctta ctgatccgct cctacgtatt 180
 gtgcgcaaga tttttgcagc aaaccgtgat gcgtatatatt tagcaccgag gcttggggaa 240
 10 cttccacaag cttcttttagc caaagcatcc tgcaaccgat tctcttcttc ttttaagagac 300
 tcttcgagtt tcttcttaat gtatcttctc caagcggtt gtatgaagca agcggcccaa 360
 gtcttccatt gttgtgagta gtacctgaaa gtatgtctta gc 402

<210> 762
 15 <211> 402
 <212> DNA
 <213> Arabidopsis thaliana

<400> 762
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 agtaaagtat ggacaatata tgaagtacta ctagacacaa tacaattcac tggcggtgaa 120
 aatcaatcaa attacaccaa tattctcgat ttgggtttct gtaaaagaat caactatata 180
 aaactcaata tagaggcacc ttcgtgttca gagaccagct gaaaccaaac catgcaatgt 240
 tacaattcca atcaatgtgt tgtcttcatt gaccactggg agaaactgta caggcgatgg 300
 25 cggtgattcc atcttcttca tagcttcaac tgccattgtt tccggtccaa ttgtcctcgg 360
 ctctctgttg cacatttctc caaactgag tttgaatatt gc 402

<210> 763
 <211> 402
 30 <212> DNA
 <213> Arabidopsis thaliana

<400> 763
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 35 gaagaagaag gagatcaagg aactcgaagt gtgtgtgtgt gtgtgtgtgt ttgccttctc 120
 ttgtctttta gttttttctc tctttggctg tgatttcgct ggcgaagaga gacatagatc 180
 ggatatggcg gctgataata cgggttcgaa atcgagctcc gctgcggtt cttacgttgg 240
 gagcttgatt agtttgacat ctaagagtga gatcagatac gaagggatcc tttacaatat 300
 taatacagat gaatccagta tcggacttca aaacgttcga tcatattggaa ctgaaggaag 360
 40 gaaaaaagat ggtccacaag ttcctccaag tgacaaagtt ta 402

<210> 764
 <211> 402
 <212> DNA
 45 <213> Arabidopsis thaliana

<400> 764
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 50 atgatctatg aagatccaac aaggatccaa gaagaagaag acattgttca agaagtttca 180
 acaacattct ctgatgaaga agataactca tcatcttggt cattatcttc ttccatgtgt 240
 tctgatttta cagaggatga tgatgatgat gatgtttctt catcttcttc aaatggacct 300
 cttgaagatc tctctgacct catgtcacac ctccctatca agaggggatt atcaaagtcc 360
 tatgaaggaa aatctcaatc attcacatca ctaggaaatg tt 402

55 <210> 765
 <211> 402
 <212> DNA
 <213> Arabidopsis thaliana

60

5 <400> 765
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 tttcatcatg ggagaaccga agtagcagct cagttcagaa acctttgcca cttcaagcga 180
 atctattctt gacttttaat actcaagtac gagcagactc aagtgcagag atgagaagcc 240
 10 gtgattctaa ggggcttaac caaggattct cttcattctc ggaggaaagt gcctttaatt 300
 ttccatcagt aaactttaac catcttaaca atggcccaaa aggggcagtt actaatggtt 360
 ctttgtgtga gagtgtgatg catcagagtc ttaaaaacct tc 402

<210> 766
 15 <211> 402
 <212> DNA
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<220>
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 <223> n = A,T,C or G

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 tccgatcatg gaaggttctt gggaaagcaa gattatttcc aggtataccc acaaaatctt 180
 tctgcattac accaaccaat atacgaaaag aagttatttg aacaaggtta agatatgaat 240
 aaaccttggg ctaccatgaa ggaatactcg tcagggtcag gcagccgctc atttccatac 300
 30 caattaaggt gggctgggag ctcnnnnagg agtgatgggc tactactgta atcttgaaac 360
 tggagtccgg tgtttgcaag aaaacgctcg ccttgaagcc aa 402

<210> 767
 <211> 402
 35 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 40 <222> (1)...(402)
 <223> n = A,T,C or G

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 50 accgttaact ctacaatcct tctctctgaa ttctcagatc tc 402

<210> 768
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 55 <213> Arabidopsis thaliana

<400> 768
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 60 acgatgagcc agagcgagag gtacctagga agcagctata gttacggtga cagtaacgga 180

5 aactccgccca cgcacgaatc agagctcacg gaggaggaca tctggtcaca cgccgtcgat 240
cacagcccgg agatgctgga atctcatgga gcgtggaaca cacgcgatgc tgtggtgagg 300
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20 tgtccttttt ggaaagagta aaagaagatt ttaacaagcg atatggtggt ggaaaggctg 300
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ttcttctctc tttttctcag gctagccctc aagccaactt gtcggatgat ttaatcaggg 300
35 ccctcacaaa gcgtaccag gacggaggga cagaagtcgt ggaggcaaaa gctggaaagg 360
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ggtcagatga gttgcataat gggttaccgt accagggttc tgatgagacc cttgttcacc 180
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50 aagatcattc gcaagatgac ctacaatatc agccacaaaa tc 402

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<212> DNA
55 <213> Arabidopsis thaliana

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60 tcatgagttg catttgaggc aagctgttac cataaacctt cctccctggt ttgacacaaa 180

5 gacgaggctt gaagttcagg ctgatgctgc atacgtcgat cttagatcgc gatgtccata 240
cttttatgaa tttggatgca agatagagcc actgggcaca gatagaacac tgggaatctt 300
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gacgaaagaa gcaaccgcga taaccacata cagccataca tgttttgatc cttttgactg 180
tttattatcc tgtggctgat tcttagagat atcaggacta gtactgccct tatcaggaga 240
20 aggtacagga gggactaaag gtggtcttct cttctttgca ttggttactg cagggaaaga 300
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55 <213> Arabidopsis thaliana

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5 cttgcattcc ctgttatctt gattggcggt ttgttccttc tctcgagaag atcctctggt 240
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15 <400> 777
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gttcataaca tgaaatttgg gacgaatgca taataatgaa cagtcaaaca tagaataaag 180
caataatcag agttgttcaa ttcaaaaaaa gaaagaaaga aaaagagaga aaagatatga 240
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aacgacccaa tgcataaata taatcaagca gcagcgagtt gcttcttgtt gtgggtgagta 180
gataaagagt cttcctcgtg tggatacatc acaagtttcg tcttagaaga gatattgaat 240
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50 aagaagtcaa gctcaagcat gttcatttct tctctgctta tt 402

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55 <213> Arabidopsis thaliana

<400> 780
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60 gttctcctct taatcaaaca gaacttccag cttttgaaga ggttgagctt tcagacatag 180

5 cggcatttga aggaatatcc ccagggggcca gtgggagtca gtctggccac agaacatcat 240
 tgtccacaaa cactaaccca gtagatgttc tgagtgtcaa tgagttgtta gaatcggtat 300
 cagaaactgc tcggcaagtt gcaagtctcc ctgtttcctc cattcctgta ccttatgacc 360
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 tcctggataa tcgttaatat cctcaacggg catcatcctc cttgtccctt ttcttctctc 180
 aggatcattt tcaatacgtc ccagatgggt aatctgacga ttcaattcct gtcccttggt 240
 20 ttcaaagtct gttgatttct cagggtcttg cagtgattagg agaggcttcc atgagatcat 300
 gagatagaga agagctaaaa ccaagaacat tcgatggtaa aagagttgtc ttctcgccat 360
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 35 caccagattc caaaaagaga cgggctgaag atgaatcagg gcctcaagct tacgccttat 360
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 gaatatgtta ctgatgctct cagctacctt gagaaaaatg tcacacaagc ggagatcatc 240
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<210> 784
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 60 <213> Arabidopsis thaliana

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aacaacatgc	ttgcgatgaa	gcgagcgcaa	gatgtcttac	tacgagccaa	cggctttgac	180
cccagagacc	tcctaccgat	gatgtctcct	cctgcagcct	ccatgaatcc	tcctgcttga	240
ccacatacga	cttaggatac	ttgcaagcca	ctcaaccttg	cggactacga	tcctttaaacc	300
acaaattgcc	ttcgatttat	gtttttcaat	tttaataaat	tatgttttcag	tcacaatttt	360
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<210> 785

<211> 401

<212> DNA

<213> Arabidopsis thaliana

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<400> 785

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acggcactcg	agctctctcg	gtagccgatc	ttcttcttct	ccgttacgtg	ccgccggaga	180
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tggtcgccca	cgatcatcctt	ctagagatcg	agaccgtccg	atctgggttc	actctttggt	300
tcctttcttc	ggtgatgatc	ctaggggttc	tcctcagaag	aataaaatct	cgcttctatt	360
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<211> 401

<212> DNA

<213> Arabidopsis thaliana

35

<400> 786

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aaattatatc	tgtggctcat	ccataagggtg	actgaagagg	gcaagggtcc	aaatatatta	180
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10 tctggctatga ataatcccca tttctgttca ccagatgcag tcttttcaag ctttgccgac      240
catcctccaa caatgtcatt gtaatcctct tctgagaagt cgctgatgaa ttcttccctt      300
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atgaaccata caaagaaatc tgaccttccc aaatatTTaa tatctcttca aaacctaact      240
25 cttttatTTt tcctctcctt aatacttaca aaataaccac aaaaaaacac tagatactta      300
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35

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aaagttcata tcgtttctca gaccttaaga ttctaccggt cggagtttcc aagttgcaaa      180
gcttgacgaa agagtgaac agaaacatgt agcatgctca cagatcgatc acacgagaca      240
gcttctggat tcggttttagc aagaaatccc cttgcttgat tgttgccctg taaagtgcac      300
40 tctttgcatc aggacgggtt gtctccaaaa cacctgcaac cttgtctatc ttacagtga      360
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45

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caactataag gaaagcttga agaggccaga gctattgggt atgtagaaat tgtttaagat      180
tcgagagctt tgggttgatc taagacaatt tatctatgca acaaaaagct taccttttga      240
tccaatctcc acatcacctt tcttctccaa aacgctagtt ctacaatctt cataaaacac      300
tacacaagcc acccatttga tcatattccc aacacagatc aaaccacat agaaactcgt      360
55 gtacaacact ctgtttccat tggaactctc cgtgcatttg a      401
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<400> 792

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gttgggtatag	atgtcaccaa	gagcaacgag	tggacagggg	cgagatcatt	tggtaggaag	180
10 agtctgcatt	tcattggaac	tactccaaac	ccttatcaac	aagctatttc	catcattgga	240
aagactttat	cgggttttga	tgaggataat	ttgatccctt	gttatggatt	tggagatgct	300
acaactcatg	atcaggatgt	cttcagtttc	aatcccaatg	atacatattg	taacggggtt	360
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ctctgcatcg	tgagaatgtg	ccatctgctg	ttgctgcggc	tgcacctcag	ggcttgacca	180
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25 atcgggcgtg	aaccactag	aaactagtgc	tgcgtcatat	ataagatcta	tggctctcat	300
tgcactctcg	tcatttgggt	tactattgta	agcagcattt	atgttcttga	taattgagtg	360
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gaatattttt	gtgtatcttc	ggccattgat	tggacttttag	gcttttttga	gcacctcctt	180
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45 atatccgtaa	atcccacaag	atatggcagg	aaatgcaatg	tatttgatat	tgttttcctt	360
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<212> DNA

<213> Arabidopsis thaliana

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aaaaaaaagg	c	agaatatac	atatgtatag	tatgtacaaa	gcattaaaac	180
caaacttagg	gaagaaagcc	gatgatgtaa	tgggaagaag	gaggattagg	ggaggcagag	240
tatgagtaga	gaccatggcg	gagtagagcc	ggaggagggtg	gagaagattg	ccttaagaag	300
attgtgacgg	cgtcagccac	caccaccaag	aactccattg	ttatcttcgt	aatctctatg	360
60 catagctcga	ttttctttat	caccatcctc	tctttctttc			400

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 <213> Arabidopsis thaliana

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 tagtagaaca catataggag gcgacaaacc atctttcaaa accaaatctt cggaatttgg 180
 15 cttaagacac aactcaacca gattttctcaa tgaacctcag tgttttctcc tcggttttga 240
 gttgaaacaa agccacttta tggcaaagat gatatacctt ggggagattt ctccatccaa 300
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25
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 tctctctttc tctctctcgc tctcagtttt ntgggattgt ttcttttaaaa ggggttctta 180
 ggggttagtg aagctataga tttcaatttc atacatagtt aacgtataga aggaatcttg 240
 35 ggttgatcaa tggaagggtg tccaagaaac agagaaatcg gtccaaaact tcttgatttg 300
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 <213> Arabidopsis thaliana

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50
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 cacgagctta aggctcagcg gagagccgcc gccgccgctt ccggtggaga tggaaaatca 180
 tccggctctg ctcttggttc ttctaacgca gctacgtctg cgtcttccaa atcctctgca 240
 tcggacgctg ctgctatcgc cgattcaaaa gccctaaccg acgaaaacct aattctcccg 300
 55 aggcaggaag tgattcgtcg tttgagattc cttaagcagc cgatgactct cttcggagaa 360
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60
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5  <213> Arabidopsis thaliana

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10  <223> n = A,T,C or G

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15  agtcgaccag gagtcaggtc gagcagttga ccagtcgaca gtcgagtcaa cagagagaaa      180
    tgcaactcat cgatcaagcc atcaatcgac tgaacgggtc gaacgacgac aagctgacgg      240
    cgtgtcagtc gctgttgact catctgtcga ctgtcagtc tccacacca tctcatgttg      300
    cgtgtgttga cctgctcgag cactggctgg cctccttca agagcnnntc caccctccct      360
    cccctcctg ctccctctc ctctctcccc actccctcaa      400

20  <210> 800
    <211> 400
    <212> DNA
    <213> Arabidopsis thaliana

25  <400> 800
    cggccgcacc cacatcaaaa gatctctcat ttattcgttt cgtttctgct gttttgagtg      60
    tcgggttcgt ttagctgta atcttttttt cggcggttcg atttgaaaaa atccggggaa      120
    caggatgatc gaatcacggc tatacacggg atatacacggg gtgttagctc acatgtccat      180
30  attgtccgac agaagggttg tttaatcgaa actaatcctt tgccgcacgg aggacgtgga      240
    gctctgccgt ctgaaggcgg cagcccttcc gatctcctct ttctcgccgg tggcggttcc      300
    agctttaact tcttttcctt taggttttag gagttagggt ttgttagtgt tttttccttc      360
    ttcttttttt ggtgctcttg aatcgctttt ttcttggggg      400

35  <210> 801
    <211> 400
    <212> DNA
    <213> Arabidopsis thaliana

40  <400> 801
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    aatgaagctg gtacgtttgc aagaaacggg cttgtggaac aaataagcat gacttgggac      120
    aaatctgact atttttggta tctaacagac attacaatcg gttccggtga gacatttttg      180
    aagactggtg attcacctct tcttacagtt atgtcagctg gacatgctct tcatgtgttt      240
45  gtcaatggtc agctttcagg aactgcttat ggaggacttg accacccaaa actaaccttt      300
    agccagaaga tcaaactaca tgcagggtgc aacaagattg ctcttctgag tggtgcagtg      360
    ggtctcccga acgttggtac ctgcccgggc ggccgctcga      400

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50  <211> 400
    <212> DNA
    <213> Arabidopsis thaliana

    <400> 802
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    ggcagttgaa aagtccggtg actctgtctg gagcttggcc gacggtggcg ttttggaatc      180
    cggtggagta ggaagcgttg cggaagaaa gagaagccaa aagggtcttg agattgttgt      240
    tgtaagtgtc gttacttgtg taatttgccg tattttgaca ggtgtggtat acgtaagtgg      300

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5 gatcttgagc agaaactctg aaactcgtga gaaaggagaa gaggaaaagg aagaagaaag 360
aggagtaata agacataata cctgccccggg cggccgctcg 400

<210> 803
<211> 400
10 <212> DNA
<213> Arabidopsis thaliana

<400> 803
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ccctaagaag taattttcaa gggaaagggg cttaaagatg catacttttg gttacagagc 180
aaatgctctg ctcactttcg cagtcacggc tcttgctttc atttgcgcaa tcgcgtcctt 240
ctcagacaaa ttcagcaacc aaaatccttc tgctgagatc cagatactta atatcaatcg 300
gtttaagaag caatctcatg gtaacgatga ggtcagcttg acactggaca tatcagcaga 360
20 cttgcaatca ctttttactt ggaacaccaa acagggtttt 400

<210> 804
<211> 400
<212> DNA
25 <213> Arabidopsis thaliana

<400> 804
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30 tggagttttt gcctcgtgct atttcagaaa agtgtagact atgaagcttc atctcaagat 180
cagaccttgc ttcctttagt ttgtcagagt tcgaaacagc ccaattaaga gccgggtcaa 240
gatctcgtct cttcatagct tctagtatcc gatacatctc cacgaaagat tgtctttag 300
aacattcaga ttcaccagtt tcagcaacaa aacagtcacc aatgtcaaac attccttgac 360
ggtagaaaaa gttggcgata atctggttaa cgatatgagt 400

<210> 805
<211> 400
<212> DNA
35 <213> Arabidopsis thaliana

<400> 805
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agaacacaca catactcgtg cattcttatt attcagtga gaatagttct aaagcaacat 120
taactagaga agcatggatc cacatcacgc attcaccttc gattcccaac ccgcaaccac 180
45 aatctctttc ttagccttgg tgttctcaaa cgactcccta gagaacaaag ccttggcgta 240
gttacgaaca ctgggtcaagc tctcagggac agaccagttc ttgtaatgac caagagcaac 300
ctcaagatgg taaagctttg gtgctaaact caaatccact gcagtaatct tctctccagc 360
tacaaaagga ccagaatgtg tcttcaagtg attctccaac 400

<210> 806
<211> 400
<212> DNA
50 <213> Arabidopsis thaliana

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cgaaggatta tggactacaa acacaacatc cgtaatatgt ctgttattgc tcatgtcgac 180
cacgggaaat ccactcttac tgattctttg gttgctgctg ctgggtatcat tgcccaagag 240
60 gttgctggtg atgttcgtat gactgatacc agagctgatg aggctgaacg tgggtatcact 300

5 atcaagtcca ctggtatttc tctctactac gagatgactg atgaatcctt gaagagtttc 360
actggagcca gagacggaaa tgagtacctc ggccgcgacc 400

<210> 807
<211> 400
10 <212> DNA
<213> Arabidopsis thaliana

<400> 807
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aaggaggaac taattcaagt gtaataactt gctgcattcc aaattgtgaa aaagaagctc 120
ttgcagttgc ggctgccatg gagaaggcca ccacgcattc tattggaaga gctgtttag 180
atcacagtgt gggtaaggat cttccttcta tttttgttga aagcttcgaa tttttcctg 240
gtagaggcct tactgctact gtcaacggtg ttaagacagt agctgaagag agtagattac 300
gaaaagcatc acttggttct atagagttca ttacctcact tttcaaactc gaagatgaat 360
20 ctaaacagat caaggatgct gtaaaccgct cttcgtacct 400

<210> 808
<211> 400
25 <212> DNA
<213> Arabidopsis thaliana

<400> 808
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ggtatttttt ttttgaaaaa tatggtctgc aattacaagt aacttgagaa cagagtgcac 120
aatagcgaat tgactaagct tagtcagaaa acttggttag actccttatt tcttctcttc 180
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aagaacctcc ttgatgttca gtgagtcggt caaaagcata gagagtctgt ctattcctaa 300
tccccagcca cctgtaggag ccaaccata ttctaaagca ttacaaaatg tttcatctaa 360
agccatcgct tcatcgtctc cagactgtcg atccttgagc 400

<210> 809
<211> 400
35 <212> DNA
<213> Arabidopsis thaliana

<400> 809
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aatatatgtt tcttacggaa gagacaatga ttctagttt aacatgaact tatctacatc 120
tcgacgttgt cccagtcaaa tgtatttcct tcgaaattgt aatccggttg ttgcattcgg 180
45 ttccttgcca atctgctcat cactgcaagc ccttctacca ttctatagag tgatgacaac 240
catccctctc tagagatatt atgttcctca agcgactctg caatctcttt gtcgtgtttc 300
ccctcgagaa cactgcgcag agtcacaact gcacgtttg ttctcttcaa aatgctgctg 360
tcatcttcaa tttcaaggct ttgaagatcg ttgtgcgacg 400

<210> 810
<211> 400
50 <212> DNA
<213> Arabidopsis thaliana

<220>
55 <221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

60 <400> 810

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	gtatagatgc	aacggtctaa	gcttctcgct	atgtatgaat	gccaaagcaa	ttgcaaatac	180
	ttgcagacta	gtcaactttg	cttcgaattg	aactaagtag	agtcctccac	taacattcac	240
	aatcttttagt	cctgttggtt	catgttttga	ccccctctatg	aatagttcga	agtactggtc	300
10	tttccgtggg	tggcctttaa	gaagggtcaa	ggaacaacac	aaatcccatc	ctccacagtc	360
	acaatttcct	tgagatttcc	atctctctat	caaactcgaa			400

<210> 811

<211> 400

15 <212> DNA

<213> *Arabidopsis thaliana*

<400> 811

20	cctctagagc	ggccgcccctt	tttttttttt	tttttttttt	tttttttaaaa	ccacgaaatc	60
	caacatttta	gtttttttgag	aagaaaaaaa	cagactgcga	taaccgggaa	taggtacgca	120
	tgatgagatc	ggtttgattt	agtatttttaa	cagaacattt	ggtgagacaa	cttttaagaa	180
	gagggagaaa	gagaaccggt	tacatcattt	ggtgactaac	agagagagac	agagcttgca	240
	atattttcca	tcattcctcc	tctgcagcac	tagctgcgtt	aagatccaca	cttagatcca	300
	gttcctttcc	ggtgatcaat	ttatacatgt	tcaacacatc	aacaacagtt	gtgtcaaagt	360
25	gtattgtagc	atcataactc	gttgatatga	agcagttgtc			400

<210> 812

<211> 400

<212> DNA

30 <213> *Arabidopsis thaliana*

<400> 812

35	tttttttcggc	aaaaatgggt	aaaagaaatt	agagaaaact	gagtagttca	aacttgtcta	60
	acaattaaat	ctcttgcaag	aacagcaaag	gcatacttta	attgcatagg	aaacgagctt	120
	tgacctaacc	ttagtcgtgg	agaaattgaa	actgtcttaa	acacagtaga	tccaaacgaa	180
	cctaattgtc	gagaacgcac	acatcgccgg	aaaactaaag	atatagagag	agaaacgcat	240
	atcggtgact	ctcctccttt	ttcactctct	tcattttattc	ttccccctcat	catcatcatc	300
	atcttcttct	ttaacaaaaa	acacaactta	caagaaaact	gttgaatctt	tgtattttatt	360
40	tacatctcct	ttgaccttta	ataagaatct	gagtggttgg			400

<210> 813

<211> 400

<212> DNA

<213> *Arabidopsis thaliana*

45

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

50

<400> 813

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	aaagaaatag	ngtttttagcc	acacaaaaaac	aagcaaaaaaa	aaaagcaaaa	taacatgatc	180
	cgagtaacat	aattgccctt	ctcagttcca	ctccaccacc	aaataacata	acccgagtaa	240
	aatttgatc	caaaaaaaca	agatcaccat	gagaatatct	ttannnggac	tagccagtga	300
	agcgaatgaa	gtctcctaag	caatcataga	aatgattgat	attgattttc	tctctcccag	360
	catagatagc	ttctgcagat	ccaccgtttt	ctccttgccg			400

60 <210> 814

5 <211> 400
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 <213> Arabidopsis thaliana

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 10 <221> misc_feature
 <222> (1)...(400)
 <223> n = A,T,C or G

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 aatatacatt tcaaacaaca gcatggttgt agtcatggta atggaatgtc ttgtagatga 180
 agtgtgatag ccactttgaa gctgcaaaac ttaaaacagc cgccacaagc actgcaattc 240
 tagccacatt cgacattgtc gtttgcttca acaccgccat gactccgac atagcaacgg 300
 20 atgcgatttg taagatcacc tctagcgcat tgagatattt gnnngcttcc ttgcagctgc 360
 tgcagttctc aacatgcgac caatacctgt cgaagagctg 400

<210> 815
 <211> 400
 25 <212> DNA
 <213> Arabidopsis thaliana

<400> 815
 30 aatttgtctc gccagtgttc gatcctccgt tctcatcacc tccaccgacc ctgctcacia 60
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 taatctcttt gccatggagg tagatcctac cgttgaaact gatgacatgg ctggtacaga 180
 cgggatggat gggtttattct ctgatttggc aaatgcgatt cctggaatcg atgaggctat 240
 gagttttgct gagatgttga agttggtgca aacaatggat tatgctacta ttgtgtttga 300
 cactgctcct actggacata ctctccgcct gttacagttt ccggccacac tagaaaaggg 360
 35 actttcgaag ttgatgtcat tgaagagtag atttggtggc 400

<210> 816
 <211> 400
 <212> DNA
 40 <213> Arabidopsis thaliana

<400> 816
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 acaaaccac ttcaacaaaa tctgagaaca gttccaaaaca caaacacaa tagtccatt 180
 tggtccgtcc caaccgacaa gaaaaacggc cttgcgacaa cacggaatcc aaagaagaga 240
 tctcgagtct cgagacgagc gcctacgact gttttgacca ccgacacatc caacttcaga 300
 gccatgggtc aagaattcac gggtaatcct tcaactcctt tcaccggatt atcttcatct 360
 tttccaagat cagcatttga tctcttcggt tcttcttctt 400

50 <210> 817
 <211> 400
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 817
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 aacaaaggtt tcgtcgagtc aattcaaccg actcccgcg cttattcatc gccggcgcca 180
 60 ccgcagccac tttcccaga tctgaatgta gaagactcca gtattggctc gcatttcttc 240

5 cagatgctcc gcttggttagc ccacgcgcct tctcagcggt caccaccacg acaccttgat 300
 gttttatctt acgaagatga tttcttcagg ttggagctca atagtagaaa cgaaatcgac 360
 gatgacgaag acgaagatga agatgatgga gatgaagaag 400

<210> 818
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 818
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 taccacaac aatggaagta aacagatcag gcagcttgaa catcagcagt ggttggtgca 180
 ggagtagtct ttgacagggt tgggatatac ttccaacaac gtttggtgaa tccgcttacc 240
 ttctttgnag cttccgcagc tcgcaatcca tctttgtgaa caattcccca agcttttcca 300
 25 tgtctacat ccttatagag attgatctta gtgatttcat aagagattcc attccagtga 360
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<210> 819
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

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 atctaaaaaa agaaaactaa atcaaaagt cttatatctt aaacactctc aaggggattt 180
 tgctttataa ttgttagagt gtaaggaaca aagccaagnn ntagtatata gttacaacaa 240
 aacgacggtg tattggtcac tcaggcagtc tcagacggtt gaaaaggacc aagaaactct 300
 gctcagggcc aatatataga aatccaagat ctgcgccctt cacatatggt cccattccct 360
 45 ttccattgag ttttaagagc ttgcctcga cccatcttg 399

<210> 820
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

<400> 820
 55 tttttttttt aaaaaagtaa caaacttcaa caaatcttc acaatagtgt caaggatcat 60
 ccattaccca taaaaaaaaa aactgaaaag ttacgaaact caacatgaat cacacacaga 120
 gatttgatta tttatcatat aagaggaagc caaactgaaa atgtgcttg ttactagcag 180
 ccactcattc atgaagatgc tgcaactata ggcatctgag ttaccaatc aaatttgtct 240
 cgactgtgtt tgcgagaagc ttgcttcttg tctttgctgc tgccaccacg tgaggaagag 300
 ttgtcttttag acttctgtcc tttctttcca gtcttcctgt ggttgcttt gctcttgat 360
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60

5 <210> 821
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 821
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 acctataaac caaactcatc tcatgaaggt ctttaagcttg gtcttcaccc tcagtataa 180
 ccttggttgc agaaacagcc ttagtcgaca ggaaatcagt gtgctcttgg tacggcgatc 240
 15 tggagaatct agtctctttc cagaactctg gtgtaaggaa cccatatgtc ttctgtaagc 300
 aatcgaatgt agccttgaca aagtttccaa ggggttttggg agatcctctt gaagaagtaa 360
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<210> 822
 20 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 25 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 822
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 cagacgtggc ccaacataaa gatgaaacga aagaaatggg caaattctac ttggttatcc 180
 agtaaataaa tatgagmnnt gtgcatacag ccgcaacgag tgaaagaatg attgtatcca 240
 tcgacttttt cctctttatc gctgccagaa tagtggtcac cgtaggtaga cggctggcga 300
 35 cattgctaag ctttgagttg atgcctccaa aagttgaacg ttgaaacaca agtgtaccga 360
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<210> 823
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 40 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 <223> n = A,T,C or G

<400> 823
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 50 cttttatata tcacagattg cagacaggca ttactcaaag tgaagccatg taaacaatcc 120
 atacatatat aaaaataaag tcttcattac tactaccaa agccagaaaa gaaaaagaaa 180
 nnnnaaaaaa nnaaaaaagc tcagaagcat ctaatcatcc taaagctggg gaaatctcaa 240
 tctactcaac tacgtagcaa gcattattgt tgtaataatt aggaactggg ccaagataat 300
 caacagtagc agatggcgctc tgagacgggt atgcaaaaagt gcttgacagg agatgagtaa 360
 55 gctgcacata cgtaccggta gcattacaga acgccccatg 399

<210> 824
 <211> 399
 <212> DNA
 60 <213> Arabidopsis thaliana

5

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<400> 824
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tctaactgtg actatccttg acgagatatg taacaacaca gccaggaatc tcataagact      120
ctgtttccac ccaaaatcag gtcggaagat agttgcaggt aggaagctaa tcaaacaaga      180
10  caccttattt ttcacgacga gatgttgaac ccctgaagaa tgttggacac cattttgatg      240
gataaaacat tttcatagga gaaatgatag agtccagggg aaaagttgtt tagcttttca      300
agccttaccg tgtgcatgga caaattttctt attcactatc tgttttttgtg tgtagtaaga      360
atctgaattt tatgggtgaa tttgtacctc ggccgcgac      399
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15

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<210> 825
<211> 399
<212> DNA
<213> Arabidopsis thaliana
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20

```
<400> 825
tcgagcggcc gcccgggcag gtaccgtctt tgggcattct cgagattggt aacaagaact      60
tactcaatcc agatgcattg aatacattag tcaatcccat ttgagatttg acataatctt      120
caagtatgat agtaacaatc tcagacaagt ttgattcaag aaaatcattg atctctttaa      180
gtgcattgat agctggttga aaggctgtga agttaaagca agtccctcca gtggaatgac      240
25  acaaccatat atcgttttga aaatcatatg tatctagcat tatacctctc acaccattct      300
taagctgatt ggtgatggag tcttcttgat tctttggaga gacaaggaat gaaccagttg      360
ccgaatttgc ccccggtgatt gcgtacctcg gccgcgacc      399
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30

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<210> 826
<211> 399
<212> DNA
<213> Arabidopsis thaliana
```

35

```
<400> 826
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tttcgattaa tgaaataaat gcttattacc atattgctga gtgcgtgggtc gttacagctg      120
ttagagatgg tatgaacctt actccctacg aatatatcgt ttgtagacaa ggtttacttg      180
ggtctgaatc agacttttagt ggcccaaaga agagcatgtt gggtgcatca gagtttattg      240
gatgttcccc ttcgcttagt ggggctatac gcgtaaaccg atggaacgtt gaagctactg      300
40  gagaagcact aaatgaggcc ctctcaatga gtgatgctga gaaacagcta cggcatgaga      360
aacattttccg gtatgttagt actcacgatg tagcttatt      399
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45

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<210> 827
<211> 399
<212> DNA
<213> Arabidopsis thaliana
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50

```
<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G
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60

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<400> 827
catggcaaga ggtttgaaga agcatttgaa gaggtcfaat gtcctaagc attggatgct      60
55  tgataaactt ggtgggtgct ttgcccccaa gccgtcttct gggccacaca agtctaggga      120
gtgtttaccc ttggtcctta tcattcaggaa caggttgaag tatgctctga catacagaga      180
agtgatttcg atcttgatgc aaaggcatat tcaggttgat gggaaagtga ggactgacaa      240
gacttaccct gctgggttca tggatgttgt gtctatcccc aaaacaaatg agaacttccg      300
tcttttgtat gacaccaann gacgtttccg tctccactcc atcaannatg aggaggctaa      360
60  gttcaagctt tgcaaagtga gatcgatcca atttggatca      399
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5
 <210> 828
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

10
 <220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

15
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 aggatacggg ggtcgaggta gaagtcctcc tcctcctcct cctcgacgtg gatatgggtg 120
 tggtggtggt ggtggtggac gtagaggatc tagccatgga agtctcttgg ttcgtaacat 180
 20 tcctcttgat tgcagaccag aagagcttcg tgagcccttt gagaggtttg gacctgtgag 240
 agatgtctat atccccagag actattactc nnnngaaccg cggggggttg cgtttgtgga 300
 gtttgttgat gcatatgatg ctggggaggc tcaaagaagc atgaacagga gaagctttgc 360
 tggaagagag ataacgggtg ttgttgcttc agagtctat 399

25
 <210> 829
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

30
 <400> 829
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 aacttattat tttctcattc cggacgagtc ttgacgatga aattctgacg gctaattggga 120
 ttcataacaa cgggaggacc agcggttcct ggccatgctt ggaatttctc atccgttgct 180
 gccaccatt ctttggttaga gacagttcct ggagtagtcc ctccaaagat cttattatca 240
 35 gagataactt tgtcgaagat gtatgagatt ccgaaagaac cgatgagagc accgattatg 300
 tacttggtt tacctcctga tgccattttc ttctaaagct ttgccgattc agagacagtg 360
 aagcttaaac agtggacacc tgcccgggag gccgctcga 399

40
 <210> 830
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

45
 <400> 830
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 tttacatata gtacacatac aagcataaag cacgatctgt tttcttaaat gtgtttcatt 120
 ttacacgagg agattgagtg taagaaggta aaggcgatgc accaggagtc atgtgcagca 180
 gaggccgatc atgactatat cttaccggag atttctgcat aacagaagaa tgatgaaatc 240
 ttggagattc catttggttg tgtttggttc caggtttagc aacggattct agctgttcta 300
 50 atgtgactaa aacctctgac atttttggcc ggagttttgc atcgggattt aagcattgca 360
 atgcaagatt agcagctgtg aaagctcccg gacgcgtgg 399

55
 <210> 831
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana

60
 <400> 831
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 cttatgacta tgatgatcct cttcaaagct tttcctcttc ccaagagatg gctctggctt 120

5 acttttcctct ctgctgcttt taggagctga ttttctttcg tcttccattt ctcttcttct 180
 cgcccatgga gccccgaaac ctctttcctg attaccacta tggttttcct ctaacctacc 240
 cttaattcta tctcggagtc taccctgaga aggtaactcg cttctgtccc ttcccccttc 300
 acttctcctg tcaaagtggg gacctcttcc gccattgctt ctctcacgaa gcttaattct 360
 accctgaaga cgactactgc taatggagcg gacgcgtgg 399
10 <210> 832
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana
15 <400> 832
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 caaaagtcta aaaaaaacta ctgtacgaaa tgatacaaca acagagtata tatcaatcga 120
 aactgcaggc tcgaatcgag tccaaacgcc atcatatcaa aaatcagaga ccttcgatac 180
20 tcgtattact tctccaggag ctagctactc tagccatagc tcttgctaatt gaatgcagcc 240
 gtgataaatc caaatcgtaa aaccatacag agagactaaa tactacagcg ctattttcta 300
 gaataggtca gaatattcac tactgatatt tctttacgta atcataaaac tgggtacaat 360
 ttcttccaat gagaattctt acagaaaaag taaaaacat 399
25 <210> 833
 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana
30 <220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G
35 <400> 833
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 tacatgtaga tgtataacat aaagccgggc caccacaaca aaaggccacc gaaactctta 120
 acaaaaaaag aaggagaaga gaaaactccg ttttcgtttg gtagggcaaa agcctagttt 180
 taacggaaat tagcgggtgct cttgtaagtc ttaccgccgc tccagttagc cggagcaacg 240
40 ttccaagcat agatggtttc accggtggtg taagaagtga cccggaaaga gagagattga 300
 ccatagagag aggaaaaannn ttggttaagag gctccccaat tgtggctcat gcttatccaa 360
 ttcgtccggc tacctttaac ggcatgctc ttgatgtct 399
 <210> 834
45 <211> 399
 <212> DNA
 <213> Arabidopsis thaliana
 <220>
50 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G
 <400> 834
55 gagatctgtt tttgtttcta gaagaaaaca gcttgttttc accgtctctg annctctgat 60
 ttgatcgga tctaattgggt aaaaccaccg ggaacagaga ttggactcag atctacgcta 120
 ttacggaat cgaacaatgg cagacactcg tcttcttct ctccatgct ttcttcttct 180
 ctcttctctc tcttctcttc ctcatctact tcgatcagat ttgcttcttc ctogattcct 240
 tcttctcttc cggcgccgcc agattagccg cgggtttcac cgggtgctgta accgctctct 300

5 cgcgcggtttg tctactcttc gccgcagcta atttcgttta ctcagatggt ccgcttcagt 360
acgagatggc tcaacgcatg gttagctccg tccgtgact 399

<210> 835
<211> 399
10 <212> DNA
<213> Arabidopsis thaliana

<400> 835
15 ttgtcagaaa ttggcggtcca agaagcagat gttaagaata tattctacct aagagaaatc 60
gaggatagtg atgagcttgc cttggctatg gaactatatg tgcaaagggg aaaggccgtc 120
atcattggcg gcggttttctt agggcttgag ataagttctg ctctaagggc taataatcat 180
gaagtgacca tgggtttttcc agaaccttgg cttgtacacc ggtttttcac cgctgagata 240
gcttcattct atgagagtta ctatgccaac aagggaatca aaatcatcaa ggggaactgta 300
gcaactggat ttagcaccaa ctcagatgga gaggtcactg aggtgaaact agaggatgga 360
20 agaaccctag aagctaacat agttgtcgtt ggtgtcgtt 399

<210> 836
<211> 398
<212> DNA
25 <213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(398)
30 <223> n = A,T,C or G

<400> 836
35 ttgatgttct tgtggataat gaggtcggag attctgagta ttatcatggt gaagatcgat 60
atggacgtag aagtcaggag agagggaact cnnagtatga ccttgatttc agtgcaattg 120
ctgatgggtga taaagaagca ttacgtgaac aacgttttga ttcatatgat cggaggggaag 180
acaggggatg gggccatcgt cgagtttctt ctgagagaga ggatcgtttg gacagaaggg 240
tttacgcaga agatgagaga tcagagaaca tactggaatc ggatctgaga tatcgtttgg 300
ctaagcagag aaaaggcaat ggtatgagat tatcagtagg aggccatgac tatgctgctc 360
40 ctgactcttc gatggacaga ggatatagag agtctcgt 398

<210> 837
<211> 398
<212> DNA
<213> Arabidopsis thaliana

45 <400> 837
gcgccgcgct ttcttttcta gctaattgtac atgaatatga ctaaacaaca acagaaagcg 60
ataccgatta ccgcttttgt ctacatatta actgaaacaa tgtacatggt attagacatt 120
acagaaattg aaaagcaact agtaagccaa agggatgtat ttgctgacaa gtctctctct 180
50 tctcatagct gcccaagttt ttcctgaagc atctgcatta actttggatg ttgttccagt 240
agctgacaca gcttgtcacg gtcacttaat agagcctgaa tggcttcagg ggacttgaag 300
taatcatgta atgacattcc agattcttgt tgctgggaag tcccagctcc ttgctgacct 360
tgaacagcat gatgctgttg ctgttgctgc acctggga 398

55 <210> 838
<211> 398
<212> DNA
<213> Arabidopsis thaliana

60 <400> 838

5 aacaacacct tattgatttg ttgaagctaa actttatttta gtacaatatc aagattacaa 60
cacaaggctcg ctaatgatga ccagtaactt catatctacc aagaaacaaa ggaacaaaga 120
aataatccag aaacgatcca cacagcattt actgttcttg tcttgagtgc taaacgtttc 180
ttctttttgt ttttttactt tggattttgc tttctcagag ccgcggagac agcttctgtg 240
tagcttcacg gtaatcataa actcctactc ctctgttttct tcctaattctc ccagcatcaa 300
10 cgtattgaac aagaagaggg caagggtcgt actttgagtc cccaagtccc tcgtgcaaca 360
ctttcattac ggacaagcac acgtctagac cgattaag 398

<210> 839

<211> 398

15 <212> DNA

<213> Arabidopsis thaliana

<400> 839

agaaggagga ggcaatggcg gtgttatcca ccatctactc catcaccaga gcttcaacgc 60
20 ctactatggc gtctcctaact aatgactcac cgtctccact tccttcttct tcaccgtcga 120
agcttccctc tcctacttct ccgtcaaaga aaccgttaaa actaagacaa gtgagcaaac 180
aaatgggaag tcaaaaccag caacgacgag gcaacaagcc ttcgatagca cagattgaga 240
gagcttttgg ctctggatca tatcgtgatt ccgaagggga aatggatatg aatacgggat 300
tcgatgagct tctattagc catgctaata aattcgaaag taagatcgag aagaagctac 360
25 gggagattgg cgaaatcttt gtagctcgaa cagagcct 398

<210> 840

<211> 398

<212> DNA

30 <213> Arabidopsis thaliana

<400> 840

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aaggtataaa ccggagactt cggaagttac aggtaaggag ttaaaatact ttaacataat 120
35 actactgcac tttttctaag ctttaaagta ttggtcactc tctagaagaa cctaaactct 180
cgacaaacag cttacgaatg tatgaacttt atttatttct tgcacaggag aacctcaaga 240
gaagaagatg acatctattg aagatatcaa atctcttgac atgaaaacgt aagaatcttc 300
agtcttctga ctgcataaca aaccagtaat ctttcttcgt attcttcaga tattcttgta 360
40 tgtatatttt gctagatgat tatgttacta tttctttt 398

<210> 841

<211> 398

<212> DNA

<213> Arabidopsis thaliana

45

<400> 841

ttcaactaag agctgagtaa gaaaaaaaaa ggatcagaag caacaaacaa ttgaacccat 60
gattccataa acctgaaaaa aatgttataa ttaagtattc actgatgata ttgcccttct 120
taatcatcgt gcttaatctt cttcaaggac tgatcctgat gctcgaacgg atcgatacaa 180
50 ttctgctgga ttgtttgaaa gtatgtctcg gtgatagaga gcagaaagtg ttcaactacc 240
cgaagtttta ccggttgcaa gagtaactga agatgaaaat cgggggacga gcaactgcctc 300
gttgcttacg gatttcgaag ctgctaactc ttccaaaagc ttccatgttg cttctcgttt 360
ggctacaacc tcggtttcat tcgcttcac tttcttggga 398

55 <210> 842

<211> 398

<212> DNA

<213> Arabidopsis thaliana

60 <400> 842

5 aagtctgaga tcaagaaatc ataatctgca agacttgctt aacctttatt tcaacaagtc 60
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ctcgtagctc tcaaggaatt cgaaagaaac tataaatagc gaactcaa atccgcttggt 180
gtgggtaact cacaggcagt ggtttttttc ttttcgttat tgtcacaaga aacagacagg 240
tattaagcat atgcaagaga tggatccagc ttctaagctg ctgactcttt agcgatcttc 300
10 tctgcctttg caaccacctc atcgatacct ccaaccatgt aaaacgattg ttcggaaaga 360
tcatcgtact tgccatccaa caaacctgg aaactgtt 398

<210> 843

<211> 398

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

20 <222> (1)...(398)

<223> n = A,T,C or G

<400> 843

25 cgagctcggg acctcgagcg gccgcccggg caggttgga tccaagtatg aagatttgga 60
gttttcgtcg tgtttgatga ctctctgaag aatatttcgg gtctnnnnnc tgggggtcaaa 120
tttcgggtga gcaagcttaa atccaataat ttcttcgggt gatcatttgc aaaaggcgat 180
atgtacaatt gaaggatagt aggagtaaaa gctttatgaa gaatctgaat aaagtttcca 240
ccgaccgatg atgacggaag tttccgacga agagatgttt tcatgatgag tcggtgatag 300
30 cgtagctgac gaagcgctcg tctcctgtca aacacccacg ttgcataaca cgtgttttta 360
atcttctgtt atcttatgct gttttgcaat tagggggc 398

<210> 844

<211> 398

<212> DNA

35 <213> Arabidopsis thaliana

<400> 844

40 cctctagagc ggccgcccct tttttttttt ttttttagaa aaatgaaatt ttattattat 60
gttaaaacga taatgttcat aaaatggagg aaatcaaaat atagcgggtg cattccatta 120
ttcagtcctat aattcatagt attcctatac aagacagaaa atgccaaaaa tgccctctag 180
ccgaacaata tacaccgatt catatcgact cagttcgagc taatcggctc ctgctccgat 240
gcttcccacg acggtggcgg tgaggaatcc caccgaacgt gaccggatca tagaccctga 300
gacgcttagc ctcagccgga ttcacaacac actccgacaa aaccaccttg tacctcatat 360
gatcgtaaca atacgaataa gtcatgtgtt tctgtcgg 398

45

<210> 845

<211> 398

<212> DNA

<213> Arabidopsis thaliana

50

<400> 845

55 aaagcacaac agctatagat tcatgataag ttgaaaaagg ctctcccagt agtttttagga 60
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acaagcctaa agaaaaagaa gaaaagaaag cgcaaaatgt ggcatgagtg tgatcgaatc 180
taacaacat cacagcttca aagagacaag ttatccttgc ggtgtttttc aagatctatt 240
gctcccatat ttgcgagcga cattagcatc caacagtgtg tcccaaacat gtagctctcc 300
ctttgagcca ccaatagcaa gcaagaaagg gttgtccacc gcaaggaaa tggaaaacac 360
agctccagca tttggttggt gtgtagcaat gcatgaag 398

60 <210> 846

5 <211> 398
 <212> DNA
 <213> Arabidopsis thaliana

<400> 846
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 gaccggcatt gaagtccaca tatatttgta atacaaaatc tattatatac acacacaaaa 120
 atctgggata ttctaataatt taacaacaac tagcctccac tatatttaga agagcccact 180
 cgaagcatca ccacgaccac acaaatctaa gatcttttcc tcttgatatt gtttttagca 240
 ttactatttt gatatatgca aggttttagac cccaaaaaaa aagaagaaaa aatataattg 300
 15 atattttcaa aatttgagct ccattctctc taagccatgg gaaacacatt ccaagacgaa 360
 gttaatcaat agttcatcct ctgctttttc atcaagtt 398

<210> 847
 <211> 398
 20 <212> DNA
 <213> Arabidopsis thaliana

<400> 847
 25 ggatcctcta gagcgccgc cttttttttt tttttttcaa acttatttgt tgtatctaaa 60
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 aaaaccataa agttctaatac aagagaatct cactctactt aattaacaaa gatctttttt 180
 aaaacatcct tccaagcttt gtgatgagta tgcttcttca agacttttga ttctgctgtt 240
 tcttggtttt aaagttttaa taagtctctc ttttaagttg gttcttggtg acgagctgcc 300
 caaagagaac taagagcacg aagtctatga agatactctc ctaaagctag taaacctcga 360
 30 gccgattgtc ttgtcgttaa gatcttcgcc atttgttt 398

<210> 848
 <211> 398
 <212> DNA
 35 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(398)
 40 <223> n = A,T,C or G

<400> 848
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 gaaaaaagcc agacatgcct ggaagcgga cttacccaaa tcgttggtgac ataattggaa 180
 gaaaaacaaa gcttaacgta caaaagcgtt gttgtcatgt aatgaaatca gcaagtgggt 240
 tatcgacttc cagagacaaa aaccaacttc actacttaga atcgtgcaact ttctttgagc 300
 accatttttc ttcaagatcc tactgtttct tatttttttg ctttttgctt cttcttatcc 360
 aaagatgtta aaccagcacc taatcctgca ggagccag 398

50 <210> 849
 <211> 398
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 849
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 agaagcagat ctcttgctct ctctatttga cgaacaagac cgacaataat gttgccttta 180
 60 aggttaagac gacgaatccg aaaaagtatt gtgttaggcc taatactgga gttgttctcc 240

5 cgaggtctac ttgcgaagtt cttgtgacca tgcaagctca aaaggaagct ccttccgata 300
 tgcagtgcaa ggacaagttt ctgcttcaag gtgtgatagc tagtcctggg gtcacagcca 360
 aggaagttac tcctgagatg tttagcaaag aggctgga 398

<210> 850

10 <211> 397

<212> DNA

<213> Arabidopsis thaliana

<400> 850

15 agtgatgatg caaaaaaacc tatgatgatg tggttcttag ggatgctggt gttttccatg 60
 gtggccgagt caaatgctca actgtcagag aattactacg cctcgacatg tcctagcgta 120
 gagctcatcg ttaagcaggc gggtactaca aaattcaaac aaactgtcac aacggctcct 180
 gcaacgttgc ggatgttctt tcacgactgc ttcgtcgagg gatgtgatgc gtctgtgttt 240
 atagcatctg agaatgaaga cgcagagaaa gacgcagatg acaataaatc tctcgccgga 300
 20 gacggatttg acaccgtgat taaagctaaa accgctgtag aatctcaatg tcccggagtt 360
 gtgtcatgtg ccgatatact agctctcgcc gctagag 397

<210> 851

<211> 397

25 <212> DNA

<213> Arabidopsis thaliana

<400> 851

30 agatatctga ttttggcctc agtgcattac ctgaacaagg agttaccatc ctaaagacaa 60
 catgtggaac tccaattac gttgtcctg aggttctcag tcacaagggt tacaatggtg 120
 ccgttgcaga tatttgggtc tgtgggtc tcttttatgt tcttatggca ggatatcttc 180
 catttgatga aatggatcta ccaactttat atagtaagat cgacaaagct gagttctctt 240
 gccccctata ttttgccttg ggggcaaagt ccttgattaa tagaattttg gatccaaatc 300
 cagaaactcg gattacaatt gcagaaatca ggaaagatga gtgggtttcta aaggattaca 360
 35 ctctgtgata acttatcgat tacgaacatg taaacct 397

<210> 852

<211> 397

<212> DNA

40 <213> Arabidopsis thaliana

<400> 852

45 ccacgcgtcc gcgaaaccct tcttcatctt cttcttctcc tccacctaac caatgggagc 60
 aattgatctc tctttctcac agagtcttct cttctcttcg tcgcgttcca atctttcttc 120
 ctccacacac cgttccgtct cttttttgcc gccgggaagc aagtcacggg gtctgccgcc 180
 gttgcgttca atgagtcag acgacgacac ggctcaaag gaggtgaagc tatgggggtg 240
 aaggttcgaa gagagtgtca ctgagaaagt ggagaagtgc actgagtcaa tttcatttga 300
 taaggttctc tacaagcagg acattatggg tagcaaagct catgcttcaa tgcttgctca 360
 ccaggggcta ataactgata gcgataaaga tagcatt 397

50

<210> 853

<211> 397

<212> DNA

<213> Arabidopsis thaliana

55

<400> 853

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 tctctgcggt tctacgccgg cttcatgttc agaggagacc cttaaatcaa ttgcagtttt 180
 60 ggttgaagag caaaatcttc caaaggaana gatgtggctc tcctctggga tctccacggt 240

5	tctctgggta tacaccagaa ttatagggtt caatccggct acagtagtca ttaactctga	300
	gcttccatac ggggtctggcc tcggttcatc agcagcttta tgtgtagctc tcacagctgc	360
	tctccttgct tcttctatctt cagagaaaac ccgtgggt	397

<210> 854

10 <211> 397

<212> DNA

<213> Arabidopsis thaliana

<400> 854

15	tcgtaccgga tttgatttca ctcgagataa aataattagt gcaaaaaagt tctcaccatc	60
	tttctccgtc ttgtcgggtc cgtttttgtc ctcgtagcta aaaaaatcag ctttctacaa	120
	ctccgtaagg tgggaagcttg agattatgca gaagaaacga gagatctgtg gttatagaga	180
	caaattagac aagaccttat cttctcctga actcactaat cacgagactc tcaaattctct	240
	tctcagaaac cagcttgaag agtgtgatga gaatatattg gataaaaaga cagatgatgt	300
20	atccaagtta cttagcaagc ttaggagtggt ttccatgact gatcatcaag tttctaaatt	360
	aaccaacgat ggtgattgga aattgaaaca tgatctt	397

<210> 855

<211> 397

25 <212> DNA

<213> Arabidopsis thaliana

<400> 855

30	aatttttttg aaagcttata cgatggaatc ggagacgatg acgccgccga cgacgactaa	60
	gacaacaaca acgacgagaa aaccccgaaa gcctcaacgg aaagacacga tttctcgaga	120
	aacgccgttc gtttgtcacc ggaagaggag gctcaagcgc gtgggggttaa agatgatttg	180
	acggaacttg gtcataccct cacgcgtcaa tttcgtgggtg tggctaactt tctcgtccg	240
	ttacctgatg gatcttcttc ttcttctctc gatctatcga accatcccag gtttaaccaa	300
	tctcgggtctt cagatcctgg attgaatcaa tcgcgttctt cagatcggga cgaatcgtgt	360
35	gttggaagtg atacgccgga gactggaatt aggttta	397

<210> 856

<211> 397

<212> DNA

40 <213> Arabidopsis thaliana

<400> 856

45	tttttttttt ggaaattact tattgtggac caagctctga ctttgaggaa gtctcagtaa	60
	caaagacaaa ttaactcaaa aaaaaaactg aaaataaaaa attcaagtat cagacgaccc	120
	caaaattttt acagagactg agacagcaag ataagcaaga ttcaaattcca ggatacaaaa	180
	ccctcttttg acactagagg ttttagtttc gatggtgcga gctaacctct gaaccaacaa	240
	ctatcatcgg atggatcact ttgatcccc aacggtttgt ttttatccca ataccgtaa	300
	gtccaggact cacaggggtt ctgatgatag agacatacca acactttcaa gaagctcccg	360
	ggactgcagc cgctgcagta gcgtacatgt ttgagtc	397

50

<210> 857

<211> 397

<212> DNA

<213> Arabidopsis thaliana

55

<400> 857

60	acgtcctcaa agaccgaaaa gtctatacca gaaccagatg attgttttaa cttctgacca	60
	agtcctttct cgaaatctag agtgataggt ggcagtatat cttcctttgt cgctgtgagt	120
	ttgcaatctt cggattcttt agcaaagaaa atgacactaa tccttccgga gacgggtgca	180
	tcaaacgtaa aggagacgag aaagcgaccc ggattatccg ggtcgggttc aagcctaaga	240

5 gactccttct tgagattaac gtcgttacga atcgtgacgg ctttctggtg ttcaacgtaa 300
ggagtcggtt gagccatcat gtgaccagca taagggtatc tggccatcgc cacgggagcc 360
caagagtggg tgtggtaagg atgcggtgga tgaatgtt 397

<210> 858
10 <211> 397
<212> DNA
<213> Arabidopsis thaliana

<400> 858
15 ccccggtatc agtgccgtta gtggacatgt tgtcaccgtt tttggatgca cgggattctt 60
gggcagatac ctctgtctcaa agctcgccaa acttggtact caggttatca ttccctaccg 120
tgacgaggac gaagcgcgag tcttcaaacc catgggtgac ctcggccaaa tagttcgaat 180
ggagtgggac attcgaaatg agggccagat tgctgaatgt ttgaagcact cggatatcgt 240
ctataacttg gtaggacgtg actatgagac caaaactttt gactacaagt ccgtgcacgt 300
20 cgatggtgct gaacggatcg ccaagattgc ggctgaatct ggcgtttctc gcttcgtgca 360
cctgtcgcac ctgaatgcct cccacaactc gaagtcg 397

<210> 859
<211> 397
25 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
30 <222> (1)...(397)
<223> n = A,T,C or G

<400> 859
35 cttttttttt tttttttttt ttttttgagt gtaaataatt gaatgagaaa agaggagccc 60
aaacatgttg tagcaciaac tgcagtacca aatgtagtgt gccactgact tatttgattc 120
agcataaaaag cataaaccac atctaagtgt agaagaagaa aaaaaaaaga gtttggctaa 180
gcccctatag ccatttatcc ttcccaccgg atgttgaaag nnnataaata aagccccctt 240
aactttgttg aactttctct ctggctacaa aaatagaagt gcgctttctt gacggcattg 300
agatatcaaa tgactcagtc tgatatccta aactccactc ctaaaacgtc tttcaccatc 360
40 tcatatgtca caaatgcaat cgcaatcgat ggtacaa 397

<210> 860
<211> 397
<212> DNA
45 <213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(397)
50 <223> n = A,T,C or G

<400> 860
ttttttttt gaacattcgt aagattgttg aatattactt ctacagctcac aattggtgac 60
taattattga tgaacaacac aaaactcaca acataactca aggaaactaa ttaaagcacc 120
55 aatgtaaaaa tatatantnn ncgagaaagg caaaacaaaa acaaaagcata aagtggattt 180
gggatagatg aggaatagaa gcttaggtca tggaatcaac ggtgaggatg gtgctaagat 240
tcatgggatg catgtattca ggagagccat tgaggatttg ttgagctatg attctacttg 300
ctttttctga tgggtgaaaa ggatcccaaa aggcaaagag atctctgttt gggcaaagat 360
ttgataatgg agtgcatagc cctatcccat tgtacgg 397

60

5 <210> 861
 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
 <221> misc_feature
 <222> (1)...(397)
 <223> n = A,T,C or G

15 <400> 861
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 tacaaaacct acataccaag tcttatacta agttactaga taacatcaaa acaagttcat 120
 gagagagacc gttaaaactt tcagaaactc ctactttctt gttgaacata aacttttctt 180
 tagccttctt aaaattctca aagtctccag ctttagtaga cacatcttta ctcaagatct 240
 20 nnnttcttag ttgtgcacaa gcacaatact tcacgtcgta cacatctacg tctttaaagg 300
 ttgtaattgt agtcctcact cctacattct cccaacaaag agactttata agtcaaagat 360
 actgaaataa aatttaattg aaaaagagat tacaaga 397

<210> 862
 25 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 30 <221> misc_feature
 <222> (1)...(397)
 <223> n = A,T,C or G

<400> 862
 35 tttttttttt tttggaatca aacaagagaa aaaaaaacg aaatgagttt attacacaag 60
 ccagtttgag attctttcat tgaccagttt taaactgcac catagttcta gtttctaacc 120
 atatgcacaa gggactaata aagatcggat cgatatgatt tgacctaaat accccttgaa 180
 cccgggacat cgatccactc gagctgtagc tcaacctctc cacactccac gtgctggagt 240
 ctaaggaaca tattctggac aatcttgctt tggttcaaca caatgtggct tgattcnnnc 300
 40 aaacaatttt ttctgctcgg ctctatcttc tttattatgg tcccattagg aagtcctggg 360
 ccgagctgat gggcaaattt aatagcttca ataaatg 397

<210> 863
 <211> 397
 45 <212> DNA
 <213> Arabidopsis thaliana

<400> 863
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 50 ctttctttgt atagaacaaa actaagatca tcagtctatt gctatagttg tctttgtcta 120
 ttgctattct tttctctgta gttttctaag gactctatta aaacaagcaa actaaacgtg 180
 aacaaaagca aaccagagta ttaaggtagt gaattatatg atcggacaag gcgaggtctc 240
 ccagacatca aacacattct cctcgctatg caatgcaaaa aggcggctgc caccaatgga 300
 gaaatcacag attgagccac catagcttct tcttagccta gaagttaaga cccagtctgg 360
 55 tccacagaac acagagatag aatcattcat tgatgag 397

<210> 864
 <211> 397
 <212> DNA
 60 <213> Arabidopsis thaliana

5

<220>
<221> misc_feature
<222> (1)...(397)
<223> n = A,T,C or G

10

<400> 864
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gaatctcccc ttgcatatc ggcagcaaat tgttgaattt atattacaaa attctgggca 120
gaaagacttc aactttaatc catcttttcg tgatcccttc accggcgcaa atgcttatgt 180
15 ncctgnnnaa gcatctcgta cagctgcaac tccggcaaaa cttttataca agcacattcc 240
aaaaagaggt gtgctagttt tcgatgctgc tcaatatgac gggattctga aaangatgac 300
agagttcaat actactttac gatctgacgc agtaacaat gacaagtccc tgaccgaact 360
cgaagtatcc agagtaggcg caatcggttaa tatactg 397

20

<210> 865
<211> 397
<212> DNA
<213> Arabidopsis thaliana

25

<400> 865
tttttttttg gaggtaaact ctattttggg tcaacaaata tgaacaagag tagtagtttg 60
ttggggacag gacataactg aaacaaagtt ttcagacaca aatgtaagaa aaaatgaaat 120
ctttgaagaa gagactcagt aaacttcagc agcaaagttg gtagtgggaa gtctctgtcg 180
cttctcaatg taagccatag gaaaccaacc agctttgcct ttgcattctc cttcagccca 240
30 accggttttg ctacaccttc ggacaacgat gtaatctcct ttgtccaagt ctaactcttt 300
ctctgaagca gcggaaaatg gatgaatcac ttcagcaaga aagtatgacg ttttctctga 360
gccgttctct gttggaatcg caggaggagc agattct 397

35

<210> 866
<211> 397
<212> DNA
<213> Arabidopsis thaliana

40

<400> 866
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atctaaagtc tgaagctttg tttggttgca tctcgatgat gatgatgatg atggttgatt 120
gtaaatgggt agtttcggtt tggttgtagc agaagctaag tttgtcaagt taataagagt 180
attttagttt ttttttggtt aaatcgattt gtgggttcac catcctacga tcgaaagttt 240
ccatctttga taatttgaga ttctggggat ttttactaga atttctagtt ttttttttgg 300
45 tttgttgatt tcgtagctag aagaaatcga tctaggtgtg tatatatata tctattcaat 360
cgaatttttag tgaatcgatt ggcgatcttg gtgagag 397

50

<210> 867
<211> 397
<212> DNA
<213> Arabidopsis thaliana

55

<220>
<221> misc_feature
<222> (1)...(397)
<223> n = A,T,C or G

60

<400> 867
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5 ccagtcagac caaaacnnng aggaagagaa acaaacccta gagacgattc tctccgcaac 180
 tggttaaaaat ttcagttgca gagagattaa tataagacac tgaaattgaa agacaaactc 240
 ctaaaagaaa aagtcttctc tttgctttgt ttaagattcg gacaatttgc taatcgcac 300
 ccaatcaatc tccacagaag gaaacttctc cagcccgaaa ctccaatct catcaaatcc 360
 agaatccgaa aagtccaaga acgtagtaat accagat 397

10 <210> 868
 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana

15 <400> 868
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 tctcaggccc tgatccattc aaatatgtat gtgcacaaca gtgtacgtgt atatatagtc 120
 tatagacatt taattcaatc ttaaagagga accatcatca cagcatagc cacagaaata 180
 20 ctccctcaaa atgctaattc cagactatat aaaccagcat tgtgtgacac agtatcccg 240
 aaacaaaaaac actgaatttc attcatgaat gtaacctacc tgcgatggct gcaacctgaa 300
 cctccatttg tgccgccttg actttagaac ccgtggctcg gtggaagaac tgttctctcg 360
 acaacaacct cacattcctc aaatactgat caaaggg 397

25 <210> 869
 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 869
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 aaaatgggaa gagcaccgtg ttgtgataag gccaacgtga agaaagggcc ttggtctcct 120
 gaggaagacg ccaaaactcaa agattacatc gagaatagtg gcacaggagg caactggatt 180
 gctttgcctc agaaaattgg tttaaggaga tgtgggaaga gttgcaggct aagggtggctc 240
 35 aactatttga gaccaaactc caaacatggg ggcttctccg aggaagaaga caacatcatt 300
 tgtaacctct atgttactat tggtagcagg tgggtctataa ttgctgcaca attgccggga 360
 agaaccgaca acgatatcaa aaactattgg aacacga 397

40 <210> 870
 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana

45 <220>
 <221> misc_feature
 <222> (1)...(397)
 <223> n = A,T,C or G

50 <400> 870
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 tcttgttctt gtgttttttg tattagttat ctcctcctg ttatgcacaa accgctgctc 120
 tagctgttgt tcaagagaaa agtcagtgcc gcaaactcgg cttaagggtg tgacagataa 180
 ctacacacc ngtctctcct ctgaagttct tgctagtgcagggttaattct ctcaaacagc 240
 aaagctaggt gcacagggtg tgccctcatg ccggtccttt tcttttgaag atttaaagga 300
 55 agccacagac gattttgatt catcacgttt cttnnmtgaa ggctcccttg gaaagctata 360
 cagaggaaca ctggaaaatg gaagttccat agctatc 397

60 <210> 871
 <211> 397
 <212> DNA

5 <213> Arabidopsis thaliana

<400> 871

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tccatctcag gtttgaaatt gatatgggtg ctcattctct ctgttacttc ggaggaggcg 120
10 atgcggaaaaa ggcagagctt gatgcttacc gagaaatgca tttcccaacg ttggcaaadc 180
taacaaaagac gaaaaaaatg ccatctccag acgatctgag gacagaagga ctttgtcctt 240
tatcacctga agaagccgtg cttatgcttg cgggtctggg ttttagtcgg aagacacgtg 300
ttttcgtcgc tgggtgcgaat atatatgggtg ggaataaacg gttagcagct ttaacgagtc 360
tctacccgaa tctagtcacc aaagagaatg tactctc 397

15

<210> 872

<211> 396

<212> DNA

<213> Arabidopsis thaliana

20

<400> 872

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gatcaaacc aattcaataa ccaaatgaac caaatctcat acttataatt gatatatatg 180
25 tcaagcaaaa aagcgggtag gaagatcaat gtgcgctaac gaggaaggag ttttggcaaa 240
ctccgcactc aatggtctct gatcctgaga ctggaacctg gacctgtaag tgcacagtgc 300
atgttgagca agctacttct ttcattccgc tccagatcc ttcctcaaa ccagacgaag 360
acttgcggtt tctctccatt tctcctgta actttc 396

30

<210> 873

<211> 396

<212> DNA

<213> Arabidopsis thaliana

35

<400> 873

cttttttttt ttttttgtaa aaaaataatt atcatatata acatagaaaa aagtaataca 60
actgtagtgt aatatgtttt tggtgattta acccaattat cttctaaaga atacaaattg 120
atggctaaat atatacgtgt aataattaaa ggatggccaa aattgagaag aagaacaatg 180
aaagtggat agagagagaa taagcagcag aagtcgtcga cgtgtttggt ctttgagatg 240
40 gtatgtttgt cgctctctgg tcaaacgaag aagctggcgg tctagccgag gaggaggaac 300
ggttcgtatg aagcgtccga gccgatgtct caccggtgta acaatcagat tctttccacc 360
ccagaatcag tttctcacga tcaaagacaa tgcgat 396

45

<210> 874

<211> 396

<212> DNA

<213> Arabidopsis thaliana

<400> 874

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acttgcttaa gcgttcgtta caagacgcaa accaacgaaa cagatcactt ccaaaaaacta 180
ctaagtcgtt acaacaacaa atttggtact cagaatccgg tttcataggc taaccggtat 240
ccactataca aataacacac tctgtacgag catagaaccg gattcgtttc tttcatatac 300
55 ggttcccaag aattcacatg gcaaagaacc atcctctagt tagccgctat gtcacctacg 360
acttcccggc ccgtttacgt ttgttcttgg tgagag 396

60

<210> 875

<211> 396

<212> DNA

5 <213> Arabidopsis thaliana

<400> 875
tcgagcggcc gcccgggcag gtacttgtcc tttgttactg tctttgcctt cttccacatt 60
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10 aagctgagtc catagagcaa cgcgaacatc acactcaaat agagcttgct gtaaccgttg 180
taagcgtcta gattgatatc gaaattcttc tcattgagga tacgggtaat gttataggtg 240
tgtccagtct gatcaaaggt gtgtgaagta tagaatggaa acttctgagc atcataagca 300
ttagtccagt agaagatagg tagaacaatg tataaaaaga tgaagaatcc tccaaagaaa 360
ttggcaatgg cgaagaatgg tacctcggcc gcgacc 396

15

<210> 876

<211> 396

<212> DNA

<213> Arabidopsis thaliana

20

<400> 876
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aaggtcagac ataattctctg ctgttgccgc accaagtttc tgacagaagt tgtaaaaatc 180
25 ctcaaggtat gctttgtaga gggatttctt cataatctct atgttcatgt catcgagatc 240
ctctgatgtt aggcattcag aaaagtattg agccagagga gtgtccacaa gcaccaacct 300
atagagttcc cgcattgttct gagcaacagc tagttagtga atactgtcaa acatgcctaa 360
agggtgacac ttctcgatca actcttgaac atctct 396

30

<210> 877

<211> 396

<212> DNA

<213> Arabidopsis thaliana

35

<220>

<221> misc_feature

<222> (1)...(396)

<223> n = A,T,C or G

40

<400> 877
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catgacaaac tcatagaact cttcgaaaac tggatctcaa attttgagaa agcttatgaa 180
accgttgaag agaagtttct taggttcgaa gttttcaagg ataattctaaa gcacatcgat 240
45 gagactaaca agaaagggaa aagctactgg ctcgggctca acgagtttgc ggatttgagc 300
catgnnnagt tcaagaaaat gtatttaggg ctcaagactg atatagttag acgcgatgaa 360
gaaagatctt acgcagagtt cgcttacagg gacgtc 396

50

<210> 878

<211> 396

<212> DNA

<213> Arabidopsis thaliana

55

<220>

<221> misc_feature

<222> (1)...(396)

<223> n = A,T,C or G

<400> 878

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 ttatagtaat atttttatga aatgtgtaaa ttcatacttt agtacaatcc agttcctagc 180
 aaatccaaat cttgaaattt gggattagta taaaatggga gttattctct gttctcctgt 240
 taagtgggac tctagtagac gatgacatgg tatcatatct tatactacac atataaaata 300
 10 gaaatgatat taaaaatggg agggaaacaaa gnnggtcacg ttatgcatga atgtagtcaa 360
 acgaacaact ctttaagttt tttttttctt gacaac 396

<210> 879

<211> 396

15 <212> DNA

<213> Arabidopsis thaliana

<400> 879

ggcgattggc cgtcgcggcg aaacgtggtg gcttgtgccc gcgtttgtcg tagctggagg 60
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 tccctcaagc agtctgggtcc aagagattct ctagtccaat gctttataaa acgtaatcga 180
 aatactcaat cgtatcatct ctatctcgga ttaactacct ctttgacgga taacgggaag 240
 tttcttcttg ctgcttctaa gctgaagcgc gcaacttgca ctgattacat catctctttg 300
 cgttcagacg atatctcaaa gagaagcaac gcgtatcttg ggagaatgag atcgaacttc 360
 25 cttggaacaa aattcacggt ctttgatggt agtcag 396

<210> 880

<211> 396

<212> DNA

30 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(396)

35 <223> n = A,T,C or G

<400> 880

agacatttga tcttgatgac tttgagcttc cagacaatga gatctttcag ggtaattacg 60
 ttgatcatca tgtagtaga aaagagcaga tcacccttca ggataccatg gatggcggtg 120
 40 tatactcaac gtcacaattt ggattagatg agcgatttgg tgatggcgac acttctcaag 180
 ctgcttttga tcttgatgag gcagtattcc aggacaagga tggtattgga tccgacgatg 240
 agggagttcc aggtattgat cacaatgcgt atctggatgc gnnagcaccg gggataaagg 300
 attcgatgga aggagtctct gaagccatgc ccatggattt taatgaagag caggttgaag 360
 atcttgctat gaataatgag ttcacgaag atgctc 396

45

<210> 881

<211> 396

<212> DNA

<213> Arabidopsis thaliana

50

<220>

<221> misc_feature

<222> (1)...(396)

<223> n = A,T,C or G

55

<400> 881

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 tgcttcacta gccccaggaa aaatggggcg aagagacaac aactcagcca taatagctcc 180
 60 catcgccccc atatcaactt tcgatgtgta tacatatgac tgtagaagta cttcaggagc 240

5	cctgtaccag cgtgtagaaa catactcggg aaaaggtgga ctcgaattaa cctcacgtgc	300
	cannncaaaa tcagcaatct taatgatgtc tttagagact aacagatttt ctggcttaag	360
	atcgcggtgg aagtacctgc ccgggcggcc gctcga	396

<210> 882

10 <211> 396

<212> DNA

<213> Arabidopsis thaliana

<400> 882

15	tcgagcggcc gcccgggcag gtacaagcca cactttttaag ttcttctaca tatattagat	60
	ggtggtgagg atgagactag gaaagattgt ggaagacttg aagtcgaaga taaagactgg	120
	tctaaggatg cggaagagat catcattatc atcaccatca tattcatctt catcatcatc	180
	atcatcatca tcatcatcgt atgagaagat agagaagagt gagagtatga gatttgagtt	240
	gagaagcaga aaggctcaca aaattatcca agaaaccctt caaattgctg actctcccac	300
20	ttcaagaact tatgctttct gatttcatct ttttaacatc caaaacatat tcatacatat	360
	acatacataa ggattttacgt gtacctcggc cgcgac	396

<210> 883

<211> 396

25 <212> DNA

<213> Arabidopsis thaliana

<400> 883

30	gacagagagc aaaaccagtc tccgacacac ttatacatca atgaccacac tgtcgggaagc	60
	agagcatttt tcatgtgaac taaagaaaga aggtagttag taacaactct gatgacataa	120
	gagagacaca cccgaaattt caatccactc cctttctctt ttcgtgaagc tgactacgta	180
	acttgtagta gtgcatgctt agctattctt tgaaagggtta aaatcttctt ctccggtttt	240
	tactaatcgg attttattcc tccggttatgc ttgttgcctt tcttcgacga ctcttgatc	300
	tgctcaagaa gcttcttttg gaatctgtaa cccttgtcag ttccataaat gtaatcacag	360
35	tacgtgaaca ctgaagcgaa gttgctttga ctttgt	396

<210> 884

<211> 396

<212> DNA

40 <213> Arabidopsis thaliana

<400> 884

45	cctctagagc ggccgccctt tttttttttt tttttttttt tttttgagaa aatattattc	60
	tctaaatcat tgaggagatg agtttgaata caaacctaga aaggtagaga gcattgtaca	120
	aagctatcaa gtcaacaaat aacaacttag aagaagttga ccaaaaaaaa aaaaaaaaca	180
	aaaaaaacaa caacttagaa gaacagccac actcatcgtc tctcatattc agactttaat	240
	catgtggctt ctttttcagg atctgatctg tgaaccggat ctctgatatc tcgtcccctt	300
	gagatgatgc ttccttgatg ctctctggtt gtgtaaagat ccggtgacag gcactggagg	360
	taggttgatg actcggcctt gcacgaaatt ccgggg	396

50

<210> 885

<211> 396

<212> DNA

<213> Arabidopsis thaliana

55

<400> 885

60	acgtcgcgatg cagcgcgtacg taagcttgga tcctctagag cggccgccct tttttttttt	60
	tttttttttt ttttttttaa gaaagaaaag gtgtctctat cggattaaac catctcaaat	120
	gttcataaac ttctcattgg atcataattg taccactaca acaacctcgg tgtctgacac	180
	tgtgagctcc aacaacagtc ttaaaacata gacatatccg gaggagctcc atacatactc	240

5 ttccatgaat acggtatctg ccatttccca ccttcttccc catggaactt gtcaggagtc 300
 agaccataa gcttagatga agcctcagct agaagaaatg cttcaggaat gttgtctcct 360
 tcagaacagt aacatagcag gcatgtcatc ttcaag 396

<210> 886

10 <211> 396

<212> DNA

<213> Arabidopsis thaliana

<220>

15 <221> misc_feature

<222> (1)...(396)

<223> n = A,T,C or G

<400> 886

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 cacggtgggt ttaagactaa ccacaaaaga caacatacat aaacttctag aaaacaacaa 120
 catttagaga taatgaagca aagtctcacc tatgcttcag atttgatggg agcacttgca 180
 ttttgcgcac tgcggaagaa gaagcattac tctcaagaag ccattccctt gcgcaaatca 240
 gagcctccac tgtctcgggc ctcagtgcg tcttgtactc atccatttcc ctcggttcca 300
 25 tgtcaaaagac atagtcaaag gctgcagctg aaaccgggat tgnnnggatg tctctagcca 360
 tctttgacaa ggtcgggtac ttgagcttgt tctgtt 396

<210> 887

<211> 396

30 <212> DNA

<213> Arabidopsis thaliana

<400> 887

35 ttggatcctc tagagcggcc gccctttttt tttttttttt tttttttttt ttttttctgg 60
 agttatattt attttataag aaaaatacaa cccaagatca agagtaaagc ttttacactt 120
 gccaaacgga agaatcctaa accaagtgat tcagaaatct ctatgagttc cctatgggta 180
 ccaaaaaaaaa acaattgaga gtttaagcag caggaggcct gagttcttga tcacgagatg 240
 tgtcacgaac ggattgaggc atataatgcc acattggcat gtaaccgtaa cttggataaa 300
 cagccatttt gttgtgggta aatgcagctg gaatatgagg tatgaaccct gaagatggag 360
 40 ccgtcataga ctttaactgt tgttctgtct tctctt 396

<210> 888

<211> 396

<212> DNA

45 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(396)

50 <223> n = A,T,C or G

<400> 888

55 ggatcctcta gagcggccgc cctttttttt tttttttttt tttttttttt ttttttttga 60
 taggtaacca aaattaatta aggtattttt cttccaaatt aaataactaga ggtattaaac 120
 gtccaaatta aaaataaatg gcggtttttt actctaccat atatcaatcc cttccccatc 180
 cccttttttt actcttcttc atctccctct ctttctatat atagatgata aatatacttc 240
 tgtctatata tacagctcaa atcataacag aggaacagct ccaatccaac aatgggtgatt 300
 ttgatgtggg gacacatgac gtatatgtaa atgtgtgtag nnnaggaggc agggctatat 360
 agcgagtcgt gtctttatcg gcttgagttt caaccc 396

60

5 <210> 889
 <211> 396
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 889
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 ttgccaatca tcttcatact caactgcttc ttcaactaag caagtggaag tttctgggtc 120
 ttctcctcga gtttctgttg aaccacggac tcaatcatct tgtgcagggt tcatgcctct 180
 tctcgaaac ccgaatttcc ctgatctgtt accccacaac accagactgt ggagtcattc 240
 15 tcatcatcag tttcagggtga ataagaagca gccattggag gatgagggtta acaatcaagg 300
 tgtatctgag aagaagtctg aattgggagc tggagagaaa caaggaaagt cttttaattc 360
 cgaaagcttt caagagttta tagagttgat ggagac 396

<210> 890
 20 <211> 396
 <212> DNA
 <213> Arabidopsis thaliana

<400> 890
 25 cactctaggt ctgactctca gatcctcctc ctctcttctt cttccattca cctgcaactc 60
 ccgcttctgc tctcctcctc ctctcttctt gtcctttaga ctctacaaac gattccattt 120
 ccttaaacca tgctcttccc taaagcaaac caagaagaag aagcaacagt ctctcccatc 180
 taccgctccg cctcctcaga gtctccggtg gttcttcaat tctaaatcca ctaatgatga 240
 aaacgacgaa gatgatgtta agtctgagag cgatgatgat ggcggtatcg aaggtgatgc 300
 30 tgctattaag ggtactatct tagccggagt tttgttgatt ggtacagttg gtggattcgc 360
 cggcggttga tatgtctaca gggatcagat caatac 396

<210> 891
 <211> 396
 35 <212> DNA
 <213> Arabidopsis thaliana

<400> 891
 atggattcca atttctctcg ccatggttct tcctccgaag gtgatttttg tttcgttttc 60
 40 aatgacagta acttctccga tcgtttgctc cggatcgaga tcttgggttg gccttcggat 120
 tctaggtctg atgctgaagg atgtacgagt attgccgatt gggctcgtca tcgcaagagg 180
 agaagagagg acaacaagaa ggacaatggt gttgcgattt cagacattgt ggcattgtgc 240
 gaagaacaga ttttaaccga taacaaccaa cctgatattg atgatgctcc tgggtggtgat 300
 aatcttgacg atgaaggaga ggcaatggtt gaagaggcct tatcagggtga tgatgatgca 360
 45 tctagtgagc caaactgggg tattgattgt tctact 396

<210> 892
 <211> 396
 <212> DNA
 50 <213> Arabidopsis thaliana

<400> 892
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 atcaacaatg gagaatttga cggaaataga atcaacgatg gagagttaa cggaaatgga 120
 55 gagtgagaga gttgaacagg gtaccgataa ggaaattgga agtgagaga aaaggcagga 180
 tgatgtaaag gaaacggaga atgagaattc tggagagaga gtaggagagg aagctcctgt 240
 cagggaacat gaagattctc catgtctcat tgttattgaa gaaggtactt ccctagcttc 300
 ccttgaggag gtgaccaatg ctgatgatct gccgaagatt gatgatgaga agaattccca 360
 atttgaaaca agcccgcatc caagtccttc tccttc 396

60

5 <210> 893
 <211> 396
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 893
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 ctccccgaat ttaaagatca gagcgcgcag ttctcttgcc ttcttttctt cggaattttt 120
 cagctacgtt ttccagggtg tgtgtattgt caatcagttg acctttgctt ttgtagccag 180
 atcgttcgtg ctttgagttt agggctcttt tacaagggtt cgtgttggtg gaatttctct 240
 15 acctaggttt gggggaagag ttcagtaatt tcggtgtaga tcgtgatttg ggcttttagg 300
 gtttcggttt actggttgct ggaatttatg gtagcgttat tgaattcgga ctctctgcat 360
 gtgtaagcgt tgaagtttga agtttcaccg ggtttt 396

<210> 894
 20 <211> 396
 <212> DNA
 <213> Arabidopsis thaliana

<400> 894
 25 ctcttcatta cgctagtgac gattctcact gtggttcatg tacctatatt gacaccgagt 60
 tcagagagag agacagaatg gaatttgaag tagagtcaag tggggatttt cagacccta 120
 agagcggttt gtttgacaga tttccagtg agaggagtgt tgtgtctaac ctttccagaa 180
 atggtggcat gtctatatct gtgcatagca atgaacagtg gattggggat gatgatcttt 240
 cacattcaga cgctgcactc ggtaatgaga catattcaaa tagtctgggt caattgcaag 300
 30 ctagggaagt gaacattccc aacttcccg tttctgacac ccagtatcag cttatgtctt 360
 tggatgagcg acttcttctg gaactacaga gcattg 396

<210> 895
 <211> 395
 35 <212> DNA
 <213> Arabidopsis thaliana

<400> 895
 40 tttttttttt tttttttttt tttttttttt tttttattcc aatttggttag tttttattca 60
 atccatttgt ttctttttcc atttcggaaa gctcaatgat ttccagtaac aatgaaacca 120
 aaaaaaaaaa aatggaaaac agagcaagca agaaacagag tatataaggg ggattcaact 180
 gaattaagct tccaaccac gcaactgggt ggctcgagcg actcgggttaa ctccaagagt 240
 gaaagctccc atacggaggt tgcaagaatg agtatggcac attgtcttga tgttgtgaaa 300
 ggctcgagtc atgtattttt gcagctccaa gttcactttt tctcttctcc acatgaatcc 360
 45 ttgaatgttc tgcaccact cgaagtaact cactg 395

<210> 896
 <211> 395
 <212> DNA
 50 <213> Arabidopsis thaliana

<400> 896
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 ctacaaataa aaaagggtta tggagaact aaatgaatcc aacatgacat ttttacagcg 120
 55 acattcacaa agaaagctct tctagattgc tgcctcttg agaacaattc tggagagctc 180
 ttgagagact agcttcatat cgggtctctc tgggtctggt gagatacagc tcagagcaac 240
 ctgcaagaca tcagtaagaa ccccaaaggg attccttgag ccctgtgatc caacaatcga 300
 tggatcaaaa cactcagttg cacggttttg tcccacaagc agtagaacc cttcagtgag 360
 ttcaacgaca cctggatcac tgcacactat atctc 395

60

5 <210> 897
 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
 <221> misc_feature
 <222> (1)...(395)
 <223> n = A,T,C or G

15 <400> 897
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 acgtaacata tcgggtgatg gacaaaaaac atagaggtag gacaaacaat gtggatgtta 120
 tatannncga tactgcatgg tatcgggaag atcatcttat acaaattaca gaccctaaat 180
 ctctgctccg agtctgagcc acaccgacca gaaccgagca aaacagtgga catgacatgc 240
 20 cggatcact tggaccaagc aacagcatcg atctcggatt gggctgctcg atacaattct 300
 agcngctttg agatggcact gcgtctctcc atgattgctg gatcttcgtt caatagcgac 360
 gagagcctct tcatatccat ggtaccgagc tccgc 395

<210> 898
 25 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

<400> 898
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 tgggacaagg agtcgggaga aaagttaaaa gttttgaact ttcgatccca agtatcataa 120
 tggttctaag tgtgagaact ttcgtgcgtt tcatgcaact cagtaatcga atccaagaat 180
 tgagcattcc atttcacact tgatatggga catgcatgat caccgagctc tctagatgtc 240
 cacgatgatt gtttataacc tgagtaatca atgtagcaac tggattcgaa ccatcaggcg 300
 35 tgttggttga attgataatc ttcttccgca tgtccaagac gagatgagac atttgactcc 360
 acacatgttc ccatcgcttc gacacaacac tcgtc 395

<210> 899
 <211> 395
 40 <212> DNA
 <213> Arabidopsis thaliana

<400> 899
 45 tcgagcgggc gcccgggcag gtaccacgat ctgtgtatac atctgggaag tcctcttctg 60
 cagctggggt gactgcaact gtggcaaaaag aaccggaaac tggatgaattc tgcatgagg 120
 ctggtgcttt aatgcttgct gacaatggaa tatgttgcat tgacgagttt gacaagatgg 180
 atatcaaaga tcaggttgct attcatgaag caatggagca gcagacgata agcattacaa 240
 aagctggtat acaagcaacc ttgaatgcta ggacatcaat tcttgcagca gctaattctg 300
 ttggtgggag atatgataaa tctaaaccac ttaagtataa cgtaaatctt ccacctgcca 360
 50 ttctttcgag gtttgatctt gtgtacctcg gccgc 395

<210> 900
 <211> 395
 <212> DNA
 55 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(395)
 60 <223> n = A,T,C or G

5

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<400> 900
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cagacagtaa ctacaaactc gccatggagg gttttctctc taaggttccg attccggata      180
10 agaacatcta cgcaatcgac aagcacttgg cggctgatgg taacgccgag cactgcgcga      240
cgctctacga ggagtgtcta aagaatctgg tgaaagaaaa gattatccca atatcgaaaa      300
agacagggtg tcctgagttt gatctacaac ttctagggat gggctctgat ggccacatgg      360
cgtctctctt cccaaacat ccacagataa atgag                                     395

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15

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<210> 901
<211> 395
<212> DNA
<213> Arabidopsis thaliana

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20

```

<400> 901
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cggagctcta gtgacggcac agtccttaag gttgcgtcat cttcaccact gcagagagaa      180
ccagtgtacc tctgttctcg tcaaatacat tcaagctcct gttcatcttg tttggctact      240
25 ggtgcggaga tttgatcagc cgcagaaata caaaccattt ataagcagat gcactgtaaa      300
tggtgatcct gagatcgggt gtctcagaga agtaaatgtc aaatctggtc ttccagcaac      360
caccagtacc tcggccgcga ccggcgcgcc ggatc                                     395

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30

```

<210> 902
<211> 395
<212> DNA
<213> Arabidopsis thaliana

```

35

```

<400> 902
aacggatact tcaacaaga taaaaagggt taaaaagga gatgtcacag cactaaagcc      60
cactataatg acagctgttc cagccattct tgatcgtgtc agggatgggt tccgcaaaaa      120
ggttgatgca aagggcggat tgtcaaaaga attgtttgac tttgcatatg ctcggcgatt      180
atctgcaatc aatggaagtt ggtttggagc ctggggattg gaaaagcttt tgtgggatgt      240
gcttggtgtc aggaaaatcc gtgcagtttt gggagggtcaa atccgctatt tgctctctgg      300
40 tggtgccccct ctttctgggt acactcagag attcattaac atctgcgttg gggctccaat      360
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```

45

```

<210> 903
<211> 395
<212> DNA
<213> Arabidopsis thaliana

```

50

```

<400> 903
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actgttagag gaaagaccat cacagaagaa gaaaggaaaa gacgccacgg aatcattgtc      180
gagctgcttc gtgggtttat actcgatcaa atcagtgaac aaggcacgat gggatgttat      240
tataggtgta gtggctctga tagcaatggt gttttatcta gaataagagg cttatggaag      300
tagcgaaaaa cagtgtccta gctatgtttg tatcatcttt tctcggacat tgacaaggat      360
55 tatatgatgt ttttgtgtaa aaaaaaaaaa aaaaaa                                     395

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60

```

<210> 904
<211> 395
<212> DNA
<213> Arabidopsis thaliana

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5
 <220>
 <221> misc_feature
 <222> (1)...(395)
 <223> n = A,T,C or G

10
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 gccngtgcgg cggttgtcgc tttatgtgct gcctcacgac atgtagaaga aacgtttccg 120
 tggttggaaa tgatgtgagg aggaggacca agacagtcgt ggctgtgagt caacacgatg 180
 15 tttgttgttg catcacatcg ttcaaagact ccgagaaccg tcaagtgacc ctgtgttgtt 240
 ccttagtact tttgcttcca ttctgttaat aatgatcttt aaatgcaata gaaacaattt 300
 catatgtata tttcaagtct aaacgttctt ccgtgaaacc ttgtgtttct atgcgagaac 360
 ttaacattgt cgatattgtt atgttatttc atagt 395

20
 <210> 905
 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

25
 <220>
 <221> misc_feature
 <222> (1)...(395)
 <223> n = A,T,C or G

30
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 caaggggacg gatgcagtgg aaattctgga agggagatct tttaaactta aatatccgtg 180
 ggttggtgtc gtcaaccgtt cccaagcaga tattaacaag aatgtcgaca tgattgcggc 240
 35 tcggaagaga gagagggagt acttttccaa tactactgag tataggcacc ttgctaataa 300
 aatgggttcc gagcatnnng caaagatgct ctccaagcat ctagaacgtg tgatcaagtc 360
 gagaattcct ggcattcagt cacttattaa caaaa 395

40
 <210> 906
 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

45
 <400> 906
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 tccgagggga tatacggtgc ttcatgttgc tgcgatgcgg aaggagccac aattgatact 180
 atctctattg gaaaaagggt caagtgcac agaaagcaact ttggaaggta gaaccgcact 240
 catgatcgca aaacaagcca ctatggcggg tgaatgtaat aatatcccg agcaatgcaa 300
 50 gcattctctc aaaggccgac tatgtgtaga aatactagag caagaagaca aacgagaacc 360
 aattcctaga gatgttctc cctcttttgc agtgg 395

55
 <210> 907
 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

60
 <400> 907
 atttgtaaca tttagggtaa agaaagattt aaatgtcaac ttattaaata tgtatattgg 60
 aaaaaacca aactatagtc taatagtggg agggaaaatc caggcatagc ttatatggta 120

5 catcccaaag accaaaccag atttccaact tccatgtcaa agaaaccaac aaggagaaac 180
aaaggaaact gtttaacttg atgatattag ttcttcgagt attcggacga atgaatcgga 240
gaataccctt ctggcagttg ctgctgcgac tgtgctggtt gcgatgggtg ctcaagcttca 300
acctttctctt ttgttttctg tccaacctct ccagctgctt gagccactct attgaatgct 360
cctgcggccc agctcacacc agttaacacg taacg 395

10 <210> 908
<211> 395
<212> DNA
<213> Arabidopsis thaliana

15 <400> 908
tttgatagaa catgttttaga aggtaacggg tgtgtaaacc acacattcag caattgtaca 60
tagaaagaaa gactaaaata gaacgagaga gataaaatga gtctctatcc ccctcaagta 120
aaaatcagtc atctcaccca caagcatcca aaagataata acgtagggca gatgcagaga 180
20 caaaacacac aaatttgctc tcaagagttt catctttctt cattctctcg aaacttttca 240
cctgaagtag atagagacga gaggaatata gacgtcattg tcatcttcat cctcacaagc 300
caccactaca tcaagatggg tgcgataagg cggtaactcg acttttcgca catcccgcgc 360
gagatccaca accttcttgt ccatacctctc cttgt 395

25 <210> 909
<211> 395
<212> DNA
<213> Arabidopsis thaliana

30 <400> 909
cttttttttt tttttttttt ttttttagta aattgccaaag tacaagtatc gtccaaatat 60
tggtttgcaa gaattagtgt cagtaccagc aatagcaaca ttgcagattg tcgaacatgc 120
atacatatat gtataatata tatagcctat acaaaacaaa tttcaagaag tacaatctaa 180
gaagaaacat atagtatgag aatatagaaa tcacaaaaac aaaaacaaaa aaaaggtagc 240
35 acaacgaact gaatgaagat attctcagag atcttgggaa gcacagagcg cagtcgataa 300
cgccgggaag aaatgttcca gacttattta ccgcagttga atccccaca aattgagagg 360
atgatgatga gaatcaaggc aatgataatt gcaag 395

40 <210> 910
<211> 395
<212> DNA
<213> Arabidopsis thaliana

45 <220>
<221> misc_feature
<222> (1)...(395)
<223> n = A,T,C or G

50 <400> 910
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tttatttttc tgaatagctt aagagaaatt tgatcttcgt cttcgtcact acgtccccag 120
ctctcgagct ttgttcactc gatttcctct atacatttcc ttaaaaaccca aaattcttaa 180
gcctaatacca aaggagaaaa aaacagagca tttttcttct tctccaattt aaacagtttc 240
ctaataatct cactttgtct actcgattct cccaactcca atttgactca tcggaatcat 300
55 gccattatca atgaatcctc cgacnaatcc nncaccattg ttccggttga tctccgtcat 360
gtaactcctc acttccgcct taatcatctc ttgca 395

60 <210> 911
<211> 395
<212> DNA

5 <213> Arabidopsis thaliana

<400> 911

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acatacaatg	atgatatact	ataaaggcaa	tggagacagc	atcgcattag	tttgcgagta	120
10 tctgggttct	ttcttcatcg	atatctatcg	caaggacacg	gtctgggtct	gagccgcttg	180
gcccttccgc	gtaaagagtt	ggaagatagg	ccttatacgc	cggcaaatac	cgcgacacaa	240
agtcattcac	ctcctcatcc	gacatcccag	cttggccatc	ctgcctcatg	gcgatttccg	300
cctgaagacg	ccaccggtat	acataacttg	ggctctggat	tttgatgacg	acccaagcat	360
cgatgtactt	gtcccatgcg	tcgtaatacg	cttca			395

15

<210> 912

<211> 395

<212> DNA

<213> Arabidopsis thaliana

20

<400> 912

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taacaccatg	tacttggtaa	gcaaataaaa	gagcgatagg	aaacaagaat	ccagaatact	120
aatacatcat	cgtaaaaatc	taaacttgaa	ttaggtaaat	aaaagcttaa	gcacgttctc	180
25 cactgaattct	tctagccaat	tgaatgtcct	taggcattgat	cgtaaccctc	ttggcggtgaa	240
tagcgagag	attagtatcc	tcgaaaagtc	caactaggta	tgccctcagcc	gcctcttgaa	300
gagctaacac	cgcgtgactc	tgaaacctca	gatccgtctt	gaagtcctga	gctatttccc	360
gaacgagacg	ctggaaggga	agcttgcgga	tcaac			395

30

<210> 913

<211> 395

<212> DNA

<213> Arabidopsis thaliana

35

<400> 913

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tctaagttaa	atcatctttt	aaaccaccaa	aattcaccca	atgacacgaa	aacatttcta	120
gcacaaagaa	aatcaaattc	tatcctgaga	tccaatccaa	ttccaagcta	ttagtccttc	180
atgatccgag	tgtagaacat	gtcctaatag	catctacgcc	aaaagcgcaa	cttcagaagg	240
40 gtttttgactc	ctctgctttc	actatttcgg	tcctaagcct	aaaacggaca	tactaatccg	300
actgatactc	aaccggatca	accgggctga	gacaaaaatt	tcttgaagtc	gaggctttat	360
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45

<210> 914

<211> 395

<212> DNA

<213> Arabidopsis thaliana

50

<220>

<221> misc_feature

<222> (1)...(395)

<223> n = A,T,C or G

55

<400> 914

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atatatttgt	ttgtgtatgt	ttgcctagga	atgatgactg	gtgcttccat	cttcttgatg	180
gttgtgatga	tgatctccgt	cacggttttg	ctggttgttg	ttatgggtcc	ccgtctccgc	240
caccggctcg	taagcagcat	tcaacgcgcg	taaaactcca	taatggctat	gttctccacn	300

5 nnnnccctcct cctcctccat aaccagaagc caaaggctgt ccagaaaaca aagcaatagg 360
agctgcaaaa ttcatacaat gaactccact accgc 395

<210> 915

<211> 395

10 <212> DNA

<213> Arabidopsis thaliana

<400> 915

15 ttttaacttgt aaatcatatc aatatcacca ttaaaccacca ccaccaattt taaatatggg 60
taggcttcag atatctgact ataataatat agagcatatg agcgtatatt aataatacaa 120
ggcaaaaaca aaacatataa gccaaaagga tttacggacc gaagactttt ttccccaggc 180
tacttaggta cccgtttctt tgcataacca tttacctgtt tgctgctgta agcgagccag 240
aaaggcgtgt atctttcaag caccgcgaag tcaccagatg tttgtttgga gccgtgaaca 300
gcatggaacc aagccggtga atttgcaaaa gagtttataa acccgttgca tccaagtttt 360
20 gtctttctca ccctcagcca ttgtaaggat gtttt 395

<210> 916

<211> 395

<212> DNA

25 <213> Arabidopsis thaliana

<400> 916

30 tcgagcggcc gcccgggcag gtatttggtg aagtcacgag aatcaacgat gacggcgacg 60
aacaagcaag tcatattgaa agactacgtg agtggtttcc ctacggaatc cgatttcgat 120
ttcactacca ccaccgtcga acttaggggtt ccggaaggta ctaactctgt tctagtgaag 180
aatctctact tgtcatgcga tccttacatg agaattcgca tggggaaacc tgatccttcc 240
actgctgctc ttgtcaagc ttacactccc ggccagccaa tccaagggtg tggagtgtct 300
agaataatag aatctggaca tccagattac aagaaaggag acttactctg gggatatagt 360
gcatggggagg agtacctcgg ccgcgaccgg cgcgc 395

35

<210> 917

<211> 395

<212> DNA

<213> Arabidopsis thaliana

40

<400> 917

45 acaagtgcga atttcgaacg gagctacgat tccatggcga ccaacggaga gaagggtcacg 60
gctacgggtg tgaatggcgg agggctatct actggtgaaa accctaagaa aattgtagac 120
ctcaacacta cggagttaga tcgtactgac gacattctcg acggagaagt caagggattt 180
tcagattctg gtgaaaagaa ggaagaaacc gactctaattg gtattggatc gacggctggg 240
gttgattctg gggatatctc tccggtcgat gatattccaga agaagattcg acgtgctgag 300
aggtttggtg tttcgggtgaa attgaccgaa gaggagaagc gcaattctcg tgctgagagg 360
tttggtactg tagctgcagc agtggtgaat ggctc 395

50

<210> 918

<211> 395

<212> DNA

<213> Arabidopsis thaliana

55

<400> 918

60 cttttttttt tttttttttt aggcagaatt aaaattttatt agatatgaat atcatgaaga 60
acaaaagcaa agatgaaatg aaataaaact tggtagctta tataagaatc tcattacaat 120
ttcaagtaat acgaaggtga atgtgaagct tagtactcag tttttggaga aggtgagtat 180
gatggtggtg gtggagaact gtagacatat ggtggtggag gagatttgta gtcaacctta 240
60 ggggaaggtg agtagtatgg tgggtggagga gatttgtagt caaccttagg ggaaggtgag 300

5 tagtatggtg gtggtggtga actatagacg tatggtggtg gtggagattt gtaatctacc 360
 ttaggggacg gtgagtagta tggtcggacg cgtgg 395

<210> 919
 <211> 395
 10 <212> DNA
 <213> Arabidopsis thaliana

<400> 919
 15 taaaattcag agttttcatt tcacaagcat tttccatcga agacaaacag taacaaaaag 60
 taaaaaaggg taaaacacaa tcaccgtaaa aaaagcaatt actggcaaag ttgttcgacg 120
 gcagtgcga tctgagctgg ctgaacaacc gtccattctt ccaatgtacc ggcgtaagga 180
 gttgggacat cctgagaaga caaacacatc accggagcat ctaagtaatc atgaaagttc 240
 tcgtttattg cagccgtcaa actggctcgg attcctcccg ttctcatata ttcctccaca 300
 atcaaaaccc ggtgtgtctt cttcacccgag tttccaattg tgtagagatc aaacggcttc 360
 20 aacgacctta tgtcgataac ctctggatca taccc 395

<210> 920
 <211> 395
 <212> DNA
 25 <213> Arabidopsis thaliana

<400> 920
 30 agcggccgcc cttttttttt tttttttcgg ggggtttaaca tcagataaag ctacattaca 60
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 ttacactcgt agatttcaca acaacacatc ttctattgag aagattcttt ttcaatgtct 180
 ggtataggga agttttacta gcttgttcca tactcaagta attcccacct gaatggctga 240
 aagacatata gcacttcggg gcaactcttg aacaaaagag cgacacaaac gcaaaccgct 300
 gctatcgcta ccatcgaaag cattgctggc ctgtaggcaa cagacttgtg gtgcgttgtg 360
 acaaacacac gtttgtgatc acagagctta cattg 395

<210> 921
 <211> 395
 <212> DNA
 35 <213> Arabidopsis thaliana

<400> 921
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 aaaacaactt agagaagaaa aacacatata taaaaccaga atccatgaag agaaagatcc 120
 acaacataac ataccaaagc attaatatat ataaatgcct aagtcaagta aggtgatgca 180
 45 acggcataaa gaggggaactc gcggtgaacc gaaaaaccgc tggattcagc gacatcagtt 240
 ttgtcttctt tagattcctc cggtagtctt caatcaaacc catgcactaa gtttagccaaa 300
 accacctcat tcaataccac agcgaatgat actgctggac aaatccttct ccctgctcca 360
 aatggaagca gctcaaagtt ttgacctcgg aaatc 395

<210> 922
 <211> 395
 <212> DNA
 50 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(395)
 <223> n = A,T,C or G

60 <400> 922

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 gggcaacccc tacatatact gtatctttct tatgacttat gagatcaaat tacagaagaa 120
 aacgtcaatt gctcacacat tgttttatgt ttgctgcctt ttgttttcat gcaacgcaaa 180
 agaagatgtg atcacatctg agcaaccagt tcctctctct cctgagcagc aacagtcaca 240
 gtagcatctt cgataagtga attctccatc catcgcttca gcattttcaa tgcagcttta 300
 10 ggctgggtcca ttggaacnat gtgtcctgca tctctcannt tgaggaaact gagttgttca 360
 taagtcttta acaagcctgc ttcttttgcca tccac 395

<210> 923

<211> 395

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

20 <222> (1)...(395)

<223> n = A,T,C or G

<400> 923

25 tttttttttt tttttttttt tttttttttt tttttaatag aaaatttctt ttgaagtcta 60
 taaccaaaaa aaatgataaa ttaaaagaag aaaaaagata agaaaaaaaa aaaaaaaaaa 120
 gagttctaaa cgttacaaaa agtttgagca aacatcatct cgcttcttta actcatttaa 180
 agagaaaaga tggattctct ctctctctct atgatgtctt tttggaccat aaagttttca 240
 ccggtgtgaa acttaccgcg gaccccggtt cctgactgga acattgtcct catcatcaga 300
 ttggatatct ccgtactccc agattccggt cctngatttg cgagcttcgt cttggaactt 360
 30 ctcaagagca tcaagagcgg cttgcttgct ttttg 395

<210> 924

<211> 395

<212> DNA

35 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(395)

40 <223> n = A,T,C or G

<400> 924

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 accaataaat gtatataata tagacaaaca atgaaacaaa caccaccaac aacaaaaaag 120
 45 taccactttt agagttcttt tagactaaac atagatcaca acactggtag ggagattgag 180
 attgatatcg gaactgagac atccgttgta aaaccaccgt ctctattccc atttgtattc 240
 cctacaaacc cgtaaacgcc agaccgcac gctgcatttt cccgcctctg aaaaaccgga 300
 gcaagcgann ngctttccgt ctagcccgct ttgtccccgt aaacaaaagc gtctgtagca 360
 accccgcaat cgcaggtgct ctcaacactt tctcc 395

50

<210> 925

<211> 395

<212> DNA

<213> Arabidopsis thaliana

55

<400> 925

ggccgcgcgg ccgcggataa tacattgaac attcattctt atgagcaaga atttggactt 60
 tcgtatatac aaattaatgt acataatcta ttgttgcat ttagtagtaact ctcaggaaca 120
 agcaataact ggatctcctg gatgatttaa acaagaccaa gcttggtgtg ttacggagca 180
 60 tcacaaaatg gtctattacc actagagctt aagagacctc tataaaccag ttattttctg 240

5	tctcagagag aggaagaatg tctaaacagt atgtgccatg gcttgtgtca tccgctttaa	300
	ctccagcgtc catgaatgtt tttacgttgt tgggaaaatt ctgtgttgcg gatgatgtgt	360
	gagctgctac gtaacttagc atataacagc aaaag	395

<210> 926

10 <211> 395

<212> DNA

<213> Arabidopsis thaliana

<400> 926

15	cctctagagc ggccgccctt tttttttttt ttttttttta gagaggaatc aatgatttga	60
	ttaaacaag ccaagacgaa ccggactaaa ccggagatag aaaaaatact ttataaacca	120
	gaaatcaata gaaacacacc aagggaagaa gaagggaaag caagcaagca ccagaagatt	180
	ctaagtatac tactaacaag ctttaaaactg aacacaaaacc ccaaaccgaa gagaataaaa	240
	acagagtatt ctacatagtc ttgcatagtt acggtttcatc agccaaaact tgaaaagaag	300
20	agaagccagt gaaaacaaaa gtttgaatct ctgaacaagg agcaaccgaa ataaacagtt	360
	taccttttagt ttaagaagag caacatgctc gtttc	395

<210> 927

<211> 395

25 <212> DNA

<213> Arabidopsis thaliana

<400> 927

30	ggatcctcta gagcggccgc cctttttttt tttttttttg gcctaagaac ttttatcaac	60
	ttaagagatt tggacatttg ttcaaaatga tgatgcaata cacaacaaac agatgatata	120
	cacacacaaa tatatatatc ttctctcaca gttttcaaag aatggccac ccattcttct	180
	ccgttttgaa atctactcat cagccacggg cgggtcgacc caacgaccat gttctttgat	240
	cagaccgatc agagcatctg ttgcctccgt catagctatc ccacgcttca ccaccgtctt	300
	tccgacataa aggtcgattt ttccgggaga accacctaca tatccgaaat cagcatctgc	360
35	catttctcct ggtccattca caatgcatcc catga	395

<210> 928

<211> 395

<212> DNA

40 <213> Arabidopsis thaliana

<400> 928

45	ggatcctcta gagcggccgc cctttttttt tttttttttt attgaatgta attatagata	60
	ttattcataa tcagtttgtc acatacaatc tcttgcacag atatatacct ttaagtaaac	120
	acaaaaaagc agaacaaaat cctttttttaa aaccttcata gtttcaatcg aaccgacagt	180
	tttgacttta ggcataacca tgtagttttt taagatcagt cgctgggtgaa tgccattctt	240
	tgttttctgag cttccgatgg gagcttgaca tcagttgcta aaccgatggc ttgaaggaaac	300
	ttaacgacgt accaagtcac atcaagttgc caccattcta agccgtgtcg agctgagaac	360
	tcaaaagcat ggtgattggt gtgccatcct tcccc	395

50

<210> 929

<211> 395

<212> DNA

<213> Arabidopsis thaliana

55

<400> 929

	gattcgatta cgacgacaag gaaatagaaa gcgaagaggg cttatcaacg ctttatgata	60
	gatggaggag ccaccactcc gttccttagga gtctaaatga aagggagaag agattcaacg	120
	ttttcagaca caatgtcatg catgtccaca ataccaacaa gaagaaccga tcctacaaac	180
60	ttaagctcaa caagtttgca gatttaacaa ttaatgagtt caagaatgca tacaccggtt	240

5 ccaacatcaa gcatacaga atgttgcaag gaccaaaacg cggctcaaaa cagttcatgt 300
 atgatcatga gaatttatcc aaattaccgt cctccgttga ttggagaaaag aaagggtgctg 360
 tcaactgaaat caagaatcaa ggaaaatgtg gaagt 395

<210> 930

10 <211> 394

<212> DNA

<213> Arabidopsis thaliana

<400> 930

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 taacttttagg gtaagctaaa aactaaaaag tctttttatat ataaggcggtt atatgcgtta 180
 tattcgcttg cttatctaaa ggtcaatgct tttaatgagc ttcattgttg cgagtctctc 240
 gagaaagaca ttgaaaacgt cttcacgact aagcatgctg actcggacat gcttcttctc 300
 20 agatccacaa cgctctccag ctctgctcat taccttgtgt ctctcaatt cacttaccag 360
 atccgctctt tcttctgctc ctageccacgc aaac 394

<210> 931

<211> 394

25 <212> DNA

<213> Arabidopsis thaliana

<400> 931

30 ttttttaact gtttaaagt tttaccgaac ttttttccac cccgccaaaa agacgggttcg 60
 gagacatcat tatatttaca tctttaccct caccaattat ctttaattacg aatctacccc 120
 tcaccgggaa aaaaaaaaaa acaagaaaaa acaactcaa cgaccaccgt cctgatacta 180
 ctccggaagat accctccgga gattcgatca ttcagatcat cttcaagctc gatcctaata 240
 acagaatctt ccgaagacga aactcgagat ttcacgctat tcaagctcga acccattgct 300
 tcctcaagcc attcctctaa gctaattctta cttagccaga tcgcacctgc aattctctcc 360
 35 aaagcatcat cttcaatctc caccgttagt ccat 394

<210> 932

<211> 394

<212> DNA

40 <213> Arabidopsis thaliana

<400> 932

45 tttttttttt ttttttttga atgaataaaa gtcttataat tatgatgtgt gtacaactac 60
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 agactcggag agttcttcca tgagttcctt ttgctccaaa gcagcacaag cctgcactgc 180
 gtctctctaaa gcaccgtcaa gaaatgttgt aagcgcaaag ttcattctta gcctatgatc 240
 agtcactcta ctgtccttat aattgtatgt tcttatcttt tctgaacgag ctccagtccc 300
 aacctgagat ttcctttcat tccttatctt ctcttgttgt tcccttactt ttatttcata 360
 cagtttttgc cgcagaagct ggaaagcacg cgcc 394

50

<210> 933

<211> 394

<212> DNA

<213> Arabidopsis thaliana

55

<220>

<221> misc_feature

<222> (1)...(394)

<223> n = A,T,C or G

60

5 <400> 933
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gtgcaaatac taaattacag taacagaaaa gataagagct catttttgaa tcttcttcac 120
atctcaccag ttcgtaatgc ttcaggcaag acagcatatt ttgtgggtgt tcaagtnnna 180
gcaagttgta gaaatactga aattaaagag ctgagaccag agacgagaca actgagtgtt 240
10 gtcggtgcgg ttagagttgc ggtagaagc tcattgatgg tgacatgcta atatacgcca 300
gaaagaaaat gcgctgactt nnagaagagt ctaaagtga ttggacatac atctttacta 360
tatgtataat catttgacat actacattaa tata 394

<210> 934
15 <211> 394
<212> DNA
<213> Arabidopsis thaliana

<400> 934
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ggctcaggaa ctgatttcag ttgatcgctt gtctccagaa tcctgggtgt cagttgggaa 180
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actgaatgaa agattcacat atgcacatac cctttgtggc cagagtttg ccgcattgga 300
25 agaattcgag gatgcagaga gatgctaccg gaaggctctg ggcatagata cgagacacta 360
taatgcatgg tacggtcttg gaatgaccta tctt 394

<210> 935
<211> 394
30 <212> DNA
<213> Arabidopsis thaliana

<400> 935
tgatcagttt ctctccattg gtgatcgctc gtcagaaaaa ttgagctcga ttttgtataa 60
35 attgaagaaa aagaagaaga tcatcaaattg cgtgattttt acttttccgt tcaagtgatt 120
gatcaaggga acataagcag ctagagacca caccactcag ttattttctat ctcatagtgc 180
ttgtggatgt tcaagctata agaattgtgct cgggtggttct atgaatatat aggaagattg 240
gtgttttgat gggatgggac accaaattgc taaggtttat ggtgttatca attactagta 300
cgtgttatct tccgaacaac caccaccatg gaatctcatc tgggaaatgg agtaggcagt 360
40 tcgagatctg ccaaaaatac aaagaacact tcta 394

<210> 936
<211> 394
<212> DNA
45 <213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(394)
50 <223> n = A,T,C or G

<400> 936
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gcgagtgggt aggagacgag ggtccttcag atgaggagaa ggctacgac cggagcatg 120
55 actttgccat tgtcacattc tctacttct acaatttggg taggtgggt ttgcttgatg 180
atccgggccg tcttctcaca tctagtcagt cagaatcagg gaatggtgag gacagtggca 240
ggaagagaaa gaagtctttc tcggatccag annacaccag tgaatctctg tgtaatcagt 300
atgactcttc tgaggagggt tcttcaggtc ataattcaaa ctogtcaaga gatctaatag 360
ctgattatga tgatagtctc atgagcaaaa gagt 394

60

5 <210> 937
 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

10 <220>
 <221> misc_feature
 <222> (1)...(394)
 <223> n = A,T,C or G

15 <400> 937
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 tacctagagc ctaccatagt aacaatgccg actgaagaag aaatatcaac ttttgaccca 120
 atctgaaacc acgtgtcatc aagaggatat aacctcaaca cgtattagac aagtaatcgg 180
 aagatttccg ataacaactt ttgccgttga gcaccgatca cggtgagaga atcagcgtcg 240
 20 ataacaatcg aattgtgatt cttttggtta tcatcgaagt taaaccatcg aagctccaat 300
 ataatttaac agcataanna tatccgaata agcgtcggaa aattcttcgt ttcttcaacc 360
 aaggacgcca tctcttaata attcttgtta ctct 394

<210> 938
 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

25 <400> 938
 30 ctccactacac tagagacaat tttgatagcc cttttcttca caccaagcct aacccttgaa 60
 tgggatggat tgttactgca taatctctca aacctatgaa actgagggat gaaaaaatcg 120
 agcttgttgg gtgttttcaa cagagtatcc atcgaattcc cccaaaatcg aagaaaacac 180
 caaaaggata taattcaaaa atcaccggac acgatttcta accagagggga ttgagaaaat 240
 ggaataactaa attgctagag aaaagatgaa cgaagaccac aaaacttacc cagaagcagt 300
 35 agcttcatgg agatggagac aattatcttc ttcccagaaa gagagagaaa gagagaattg 360
 agacctgccc gggcggccgc tcgacgcgcc agaa 394

<210> 939
 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

40 <400> 939
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 gtggatcggc tgaagttgtg tatatgagaa gaagtgatgc aattcaagct atgaacatct 120
 cttaaagcaa gacttcgcat cttgtcatgt acttttgtgt tctttattcg tagtctctga 180
 ctaaatatgt gccaaagtct ggtttggttt aattacgttt aggatggctc tactctgctt 240
 tcgttttctt cttttcttgt ttcacacttt cacagtcact tttggttatt gaagttaaaa 300
 gagatttagc tgtaaatgag aaagctgttc ttgttagttg gttgaatcta atcatatacg 360
 50 aatttatctt aaaaaaaaaa aaaaaaaaaa aaaa 394

<210> 940
 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 940
 gcggccgcaa aactttcaag cttaaaatgg agaggacaac taaaattaca aaaggaaaaa 60
 acaaaaaccc actaaaaaag aagacgaaat agttagaaag tcccacaact acgaaaaaaa 120
 60 taactgtatt atttgattgc ctataagact catgaatttt atatataata catcacgttt 180

5 cactacttgt gccttcaact ctccatagat gtgtaaactc ctgcaaccaa gaagatgaac 240
 atagcagtga gagctggctc aggcttctat attcaagtcc tttagtatcg tgtcatgtgt 300
 tgtaatatgt gaggaccgga tgtctgcgaa accaattgtt ctgaactttg ggagggtctt 360
 aagagatgat tcggaccatt tgggttcacc atcg 394

10 <210> 941
 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

15 <220>
 <221> misc_feature
 <222> (1)...(394)
 <223> n = A,T,C or G

20 <400> 941
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 tagtaaaacg aataaccccc aaagacatga ttctgagaga ctacaaagtt attaattgat 120
 gcaagactta atttcaaaga tcactttggg ctccacgact ggagtaaagt agttaatgag 180
 gtatgagacg aaccagtttc tgtcaaggct aattcggtcg cgttcttcat agccatnntt 240
 25 ctctccctaa cgggacactc cccaattatc tcttgactc gtttctccac ctctgtagag 300
 ctcacgaaac cgtctctga ttcattcatc gaaatcgcaa tcttgatctc atccacaatc 360
 atcactctat taaacctctg ctcagcgtac aacg 394

<210> 942
 30 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

<400> 942
 35 tttttttaat atcataaaga atatatgttt tcattaattc tttttaactt tcttcattat 60
 tgtacaaaaa ttttatatta gacctacatc catttatcaa ataataact tttcaacatg 120
 acatccatct aaattcaagc taagatcatc tttcgaatth ttgatcaga tcattgccgt 180
 taagcaataa taaaacaaat caggagcaa ccttattgtt ctcccttagg tatgcatgtg 240
 cacctcttct gttcttctgt taactcctgg atctgccttt gaagaacttt cactatttct 300
 40 actgcttctt ctaacatgtc tgcagtgttg gtttgcttgt ccatgttagg tacaagctct 360
 tgtagcttcc ttatccgac actaatccgc gtcc 394

<210> 943
 <211> 394
 45 <212> DNA
 <213> Arabidopsis thaliana

<400> 943
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 50 aaaaagaact ttgcacaaat gaatttatca aatcaatagt tacaacaacg aagaaaatgt 120
 acaattttcc attctttgca ttacatatgt tgcagtcttg gttgtttcat tgggggtgaa 180
 ctatctttgt cctttaacgg tttagggcta tctccatctt ttgttttgtt ccagagagag 240
 ctgatgaatt gggctgcgcc gcttctagag agagtacact cttgtaaaat tcatacgaag 300
 taaagaatat ggctccttgc gacatgtaca tcactagtct ggggatcaag cctctgtata 360
 55 gtcctctcag accttcttgc ctgcgtattg attg 394

<210> 944
 <211> 394
 <212> DNA
 60 <213> Arabidopsis thaliana

5

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<400> 944
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ctatgtgatg cagaagttgc tctcatcatc ttctcaaata gaggaagct gtacgagttt      120
tgcagtagtt cgagcatgct tccgacactg gagaggtacc aaaagtgtat ctatggagca      180
10 ccagaaccca atgtgccttc aagagaggcc ttagcagttg taccgaattc tcttctcttt      240
cttctaatta ccttaattaa ttactctcaa tttttacttt gattttttaga gtcaaatgat      300
taatgttata atttgtcata tacttcagga acttagtagc cagcaggagt atctcaagct      360
taaggagcgt tatgacgcct tacagagaac ccaa                                394
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```
15 <210> 945
    <211> 394
    <212> DNA
    <213> Arabidopsis thaliana
```

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20 <220>
    <221> misc_feature
    <222> (1)...(394)
    <223> n = A,T,C or G
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25 <400> 945
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tttatctacn ngaacaaatg tcctaaaagc ctaacatattt tctctgctga attttccgac      120
taagttcctc cgccgacggg atgccgtcgt agccgcttgt tctggcactt ttccccgcgc      180
tctgccacca ggcctttaac tcctcctcaa gaaagtcttg gtttgagata aactgagact      240
30 caacaaggca agtcacacct ttaaccttaa ctgaaattaa gcttttctct gaatgtctcc      300
ttgagctttg tccctctnnn tccccatcta tgcgagctac ataataacct gttcctccaa      360
gcccttcttc ccatttcccg agccttaacc gcaa                                394
```

```
35 <210> 946
    <211> 393
    <212> DNA
    <213> Arabidopsis thaliana
```

```
40 <400> 946
aaagtcagga ttttctcaaa gtctaaaaca aagttaccac aaccatttca ccataataat      60
agctaaaaag ttctacattc caaccaaact agagctaaag aattcctttt aaaagaaaag      120
tttaaaagaa caattaagac tctgaaaact ttttaatcct ccaccttctt tgcttagagc      180
tcgtcatggg cggcatcggg ttccctcggc tccttggttt cctcggcctc cttgggtttc      240
tcagactttg attcattgct tgagtcattc cttcatttgt catcatcttc tgcttcttcc      300
45 tcagcgtcgg attcagcagg agcatccttt gactcctctt cctctctctt cttctcagct      360
tcgtcaaatg ctgctttctc cgcaccttg tgc                                393
```

```
50 <210> 947
    <211> 393
    <212> DNA
    <213> Arabidopsis thaliana
```

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55 <400> 947
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tcttcaaaat acagaaattc agaagcgaaa attacagttt tgttcagcta tactttgcta      120
cagaaatgtc aaaggctttt tgatcagtag acttcaacgt tccattgctc tgccttcttc      180
aactgcttct tgtaatcaaa ccagtcaata ccgtcatttg cagccaatga gaccataatg      240
tcatcaattc ctttctccat tcccttgagt ccacacatgt aaacaaaagt gttgtctttc      300
ttcaacaact cccataactc agctgcgtat tgcgccatcc gagtctggat atacattttc      360
60 tctcctttat cgttcgcttg ttctctgctt atc                                393
```

5
 <210> 948
 <211> 393
 <212> DNA
 <213> Arabidopsis thaliana

10
 <400> 948
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 acaacccaaaa atttgattaa cagtgaatgg atctgttcag tatcatcttg ccagctctca 120
 tggaatttga accaaaagaa actataatta cggaactcag attccgtttg gtcggagagt 180
 15 cgcacgcatt ggtttttttt tttcgttatt gtcaggaaaa aaaagagaag tattaagcat 240
 gaaagatctg aatcaatctc ttaagctgct gactcttttag cgatcttctc tgcctttgca 300
 accacctcat cgatacctcc aaccatgtaa aacgattgtt cggaaagatc atcgtacttg 360
 ccatccaaca aaccctggaa actgttgata ttt 393

20
 <210> 949
 <211> 393
 <212> DNA
 <213> Arabidopsis thaliana

25
 <220>
 <221> misc_feature
 <222> (1)...(393)
 <223> n = A,T,C or G

30
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 gaaaaccctt gaaggaatct tcgaatgcac ggaatcgctt acgcccattg gaaaagcctt 180
 caaaggtacg ttcatantag caggaggata ttctagagaa gacgggaaca aggcgggtgga 240
 35 agagggaaga accgatcttg tggcttatgg acggccgttc ttggcgaatc cggatctgac 300
 gaggagattc gaactcaatg agccgttgaa taggtacgat agatcaacgt tctacacttc 360
 agatcctgta gtgggctata cagactaccc ttt 393

40
 <210> 950
 <211> 393
 <212> DNA
 <213> Arabidopsis thaliana

45
 <220>
 <221> misc_feature
 <222> (1)...(393)
 <223> n = A,T,C or G

50
 <400> 950
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 caccttatcc acaccacgc gccgcctctt ctttcttaca ggtgaaagct ttccaacgcg 120
 gcgactttga ccgtttggct gataacgtta agtcaggtaa agcatggaga gacgcgtgga 180
 gaagcgctaa cgatggattc gagcaattcg tttttgaggc taagaaaacc gctgagcgaa 240
 ttgatcgcca atacgctggt tctcgccgct ttagctccgc tgctagctca gccgctgacc 300
 55 gtgctcgtga gattgatcgt gagtttggga ttactcctnn ngttaggact gtctctgccc 360
 atttcagtag aaatttcctt aagtacagga agc 393

60
 <210> 951
 <211> 393
 <212> DNA

5 <213> Arabidopsis thaliana

<400> 951
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atgtcgccgc tgaaaccgcc gccgctctag ccgccgccgc cattgtattc agaaaatctg 120
10 atcctttctta ctccaaagtc ctcctcaaac gagccatcag tgtttttgca tttgcggaca 180
aatacagagg aacttatagt gcaggattaa aacctgatgt ttgtccattt tattgctctt 240
actctggtta tcaggatgaa ttgtttgtggg gagctgcttg gttacaaaaa gcgacaaaga 300
atttaaaata tttgaattac ataaaaatca atggacaaat ccttgagact gctgaatatg 360
ataacacttt tggttgggat aacaagcacg ctg 393

15

<210> 952

<211> 393

<212> DNA

<213> Arabidopsis thaliana

20

<220>

<221> misc_feature

<222> (1)...(393)

<223> n = A,T,C or G

25

<400> 952
cggccgcgtc gcccgaagcg acttcctgtg aacttgaaga aaagtatcaa cgcgacaaat 60
ataccgtatg atgatacacia aggattgcag tttgcttcga ttcttgaagt gagagtcagc 120
aacgggtggct ctgtgtcttc cttaggtggc aagaaactaa gtgttgaaaaa ggcagactgg 180
30 gcggttctgc ttctggcggc ttcatctaac tttgatgggc catttactat gcctgttgat 240
tctaagatag accctgcaaa ggaatgcgtt aacagaatca gctcagtcn nnaatactcg 300
tactctgatc tttatgctcg tcatttgggt gactatcaga aacttttcaa ccgggtctct 360
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35

<210> 953

<211> 393

<212> DNA

<213> Arabidopsis thaliana

40

<400> 953
ccgctcttct tgttcttgct tttgatttga tcaaacaaaa caaaacaaaa caaaacaaaa 60
agacttacaa aaaaacaaag taagtcaat ttttcacaaa aaaaaatata attatatatt 120
cttacattac gaaaagacaa acgtatgaat tatttacatt agattaaagg aaaaaaatg 180
aattttaaga gttggtgtga ctagaaaaaac ttagtaccgt tccccacctg cctcacttct 240
45 caacggcgaa ttcactccat ttctcaacgt tctccggtga ttttccggtg aattcctcgg 300
cgacttggcc gtgggagatg gagacttggg tgtcggagat ggagacgacc ggggatgatt 360
actttgttgt tgttgatgat gatgatgatg act 393

50

<210> 954

<211> 393

<212> DNA

<213> Arabidopsis thaliana

<400> 954
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ttgtttggat taagaggctt gttcagcttc attctcggag atgaaaatgc cattgatgac 120
acacaacgta tgatgcaaat ggggtgggtt ggatttgatg catcaaagag tctgggtgca 180
gagaaggatg gtttagacat aatccagcac gaatgggcac tacctcgatt tgagcagcgc 240
gcagaatctg tattaagaaa actcgtgaag tagagagaaa cacgataagg ttttcagtga 300

5 aatctggttt acttcactcg atgttgaaaa cattcgaact ttgtagaaac ttttacttga 360
aactgagtct taacagttag ttcttgtgtt tca 393

<210> 955
<211> 393
10 <212> DNA
<213> Arabidopsis thaliana

<400> 955
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15 attcatcacc aaatcatgta attactaata taaatatgca caaagaactt taacatatca 120
tcaccgtcga tcagatcgat ctatgaattt ttttctcagt aaagatcaag aacgtcaaag 180
atcgaacggg tacaagagg acacgtccca cgattcatcc aaatctctct tgaacaaact 240
ctacaatacg tatgtccaca ggggaataaaa gccgcacctt tctctcttcc catacacaca 300
caacacagcg gatcattacc caaccacgct gtcgtcgaat cacaaccgct cgattccgca 360
20 agcaacctca tcaacgggtac ctcggcgcgc acc 393

<210> 956
<211> 393
<212> DNA
25 <213> Arabidopsis thaliana

<400> 956
tttgggtctaa aaagtttggg gtgctgtata atgattcaaa tttgtacca tatagtaatg 60
tacaatcaat tttggaggtc acactgataa caacgatatg aaagaatgag gaaaaactgt 120
30 tttcccatga tatctctctt ttgtctacac agcttcccggt gcaagggtcac aaacttgctc 180
tagctgaccc aagtcacat gctcctgtat ggtgaatcga tctacaagc tgtatgtatc 240
ttccaaaaac tcgggttacc tctgtttcct atagtgtaca aagactataa actcgacgca 300
gattcttcta tgtcttgatg cactgtagca ttcttcaatg tatgacatcg gaatcttgac 360
tgttttcggg tactgtatca ctgctatctt aag 393

<210> 957
<211> 393
<212> DNA
35 <213> Arabidopsis thaliana

<220>
40 <221> misc_feature
<222> (1)...(393)
<223> n = A,T,C or G

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tagctcatgg tgacggccca atcgtcttgg ttcttgctcc cactcgtgaa ctggctgtgc 180
50 agatacagca agaggcatct aaatttggtt catcctcaaa aattaagacc acttgcatct 240
atggtggggg tccaaaaggg cctcaagtgc gtgatctcca gaaagggtgtg gagatcggtt 300
tagctactcc tgggaggtta atagacatga tggagtcgaa caacacaaac ctacgaaggg 360
ttacttatct tgttttggat gaggtgatc gaa 393

<210> 958
<211> 393
<212> DNA
55 <213> Arabidopsis thaliana

<400> 958


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5  atttactctt gcaattttat tatatgaaat gaaaagcata accaaaagga tagattgcat      60
   tggaatcaaa tgaaatcgga acaaacaaac aaaagaacat tttcaaggga aaaaattcca      120
   aataataaat tgattaaagt gacctcttat ataatgcatg caaaatcata atcatcatca      180
   tcataatatg atcatcacga tcagtatttg ggagtggcgg gggcagcctt gggaccagtg      240
   tagtagaaag gtccgacgct aaagagctcc aagttcttgt ccgggtagaa acggtatccg      300
10 tacaacgcca aggggaactcc tgtgagaccc ttgttaacat tggtcggggt cttgcaagtc      360
   tcgaccggag ataagtagag cttgacacga cag                                     393

<210> 959
<211> 393
15 <212> DNA
   <213> Arabidopsis thaliana

<220>
<221> misc_feature
20 <222> (1)...(393)
   <223> n = A,T,C or G

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25 tttttttgac aaatctttgt tttcttactt ttggtaaact gttactactt gtgaatttca      60
   atgagatacc aaggttcaaa agataaatat tgtctaaanc agtgatcaga acagaaagaa      120
   gaaaanaaac tcagggcaaa caatctttcc cctttgtaga caaaaangaa aattcgagtt      180
   tgaatctaaa ctatgcttgc tgcagtatcc tatacggggc tatcgaaatt ggcagattgt      240
   caccaggcct ttgcttagcc ttcagtatgc aaattgggtg gttgaattat agaaccaag      300
   aatttggttg catctgcaat gatcttgctg tgcttgctat ctatatatat tcggcatgtg      360
30 aacctttgtt tctgtctttt caagagatga ttg                                     393

<210> 960
<211> 393
<212> DNA
35 <213> Arabidopsis thaliana

<400> 960
40 cgcggccgct tcaactccaat cttcaattcg ccgtgtcaga tccgacctct ctgaaccgat      60
   caaatcgatc cgatctaaat ctgttcagct atctaactct catacagcta ctgagttact      120
   atctcaactcc gttcgtacgc ttcgtctctc taagaagctt cgagatctag cggattttcc      180
   tgatccagat aagatcgatc tcaactaaagc tgcacagttc catttcgaga tcttaacaat      240
   gtgtaaagag tatgatctct ttggcattga tgtgattgat gaggaaatca agtttggtac      300
   tgagattgga gagaaattga gatctgaagc tatgaagggt ttggagagag gcatggaagg      360
   gttgaatcaa gctgaagttg ggactgggtt gca                                     393
45

<210> 961
<211> 393
<212> DNA
<213> Arabidopsis thaliana

50 <220>
<221> misc_feature
<222> (1)...(393)
<223> n = A,T,C or G

55 <400> 961
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   gattgataat atgattttca aacaagtcct gagaaagttt attgaatgct tacttaagta      120
   aagaaggaaa caattctcat gaaccagtca cgtttggtg aaaccagaat gtggccgatg      180
60 gtgagtccac acacaacacc aggtacgtag cctattgcag ctgctatcca gctaaatact      240

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5 tgatcttctt cttccttgtc ttcattcttgt tcttgctttg ttgcttcttc ttctccacca 300
 catttttnnn ggagaggagc accgcaaagc ccgggattct ctgtgaaaga agaactatct 360
 tgggtttgaa tctgagtggg ttctgggtatt gga 393

<210> 962
 10 <211> 393
 <212> DNA
 <213> Arabidopsis thaliana

<400> 962
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 actcaaataa caatgtcaac aatattaagg tctaacaaag taatgtttac acagaattac 120
 agaacaatca gctgaccata ttaaattctta cttaaataag tttcgaaaaa aaacagtggg 180
 aactgctgtg aagtgaagctg tttagtcatt agcactgact catgagacca gcaaaaaaat 240
 gttgtctttg agtgaagaga agacctgatt gttgactttc aaagacaaca catgacaatc 300
 20 aatctgtttg gtaagctcat ggcgttttagt agttatgtga atatccatcc ctgattttca 360
 cagtacagtg tgcagtatct tgtatgatga agc 393

<210> 963
 <211> 393
 25 <212> DNA
 <213> Arabidopsis thaliana

<400> 963
 30 cctctagagc ggccgccctt tttttttttt tttttttttt ttatatgaaa actgggtttat 60
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 aaaagggaaa agaatacatt ccctagtcag acaaattcaa gagcggcaga tacataacaa 180
 ctcttgaatg tacaagaaaa ctaaaaagac aaattctttt tgttggttaga agaatacaact 240
 ctccaaacat taccagacca tcaaagagta tattaaaatg tacgaagatc taccaatctt 300
 tattcaaggc tgggtgatgaa atgattcggg aggcgggatca ttgcgtggaa cgttaggttc 360
 35 aggagacact accgggatat ccaagctgtt tct 393

<210> 964
 <211> 393
 <212> DNA
 40 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(393)
 45 <223> n = A,T,C or G

<400> 964
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 gcttcttctg gaaacgaaat caagtctttc gatgttcata cgctaagtgc tacttcttgg 120
 aagccattag agagttacaa ttacaacaaa gatgaagtta accaggtagt atgtaacgga 180
 aggtcgtctt ttcttgcttc tgcagatgat tccggcgatg ttaagatcat cgaccttggg 240
 cagaaatgcc tttataaaac ccttagagct ggtcacacaa gtgtatcctt acttcgtttt 300
 ttttaccat tctcgtctat gaaactctac tagnnnnnaa aaaatgtctc aaatcaacac 360
 cttaatgaga catataagat atgtagttct gta 393

55 <210> 965
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

60

5 <400> 965
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aaatggcaac cgaaaccgta ttagccacgg cggtgagcaa tggcaaaaagc aaaggatggt 120
gcaagtccgg tccagggttac gcgacgcctc tcgcccggcat ggccgggtcca cgggaaaaagc 180
tcactctatgt cactgccctt tactccggaa cggggcgaga caaacccggac tacttggcaa 240
10 cggtggatgt ggatccaagc tcacccacat tttcaagcgt cattcacaga ctaaaaaatgc 300
catatatagg agatgagctt caccacactg gttggaactc ttgcagctct tgccatgggtg 360
atgcttctgc tgatagacgt taccttgtct ta 392

<210> 966
15 <211> 392
<212> DNA
<213> Arabidopsis thaliana

<220>
20 <221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

<400> 966
25 aaagtggta gaatctgatg agttgtgtat atggttggtg tgttccggct gttgatgacg 60
gaggctccac tgaggaggca acgacggctg caaggactta accagatgaa tccaaaatgt 120
gtggttaagac cgctgaaata gtagatgggtc ggtctaattg cgccgggtcc accgccagta 180
aggatccgaa agttaaaccag gcaaaggctc gggagaactc tcatggaaca ggaatttcaa 240
ctgtgtgaac cggtagnatc catattgtga ggatatcaga aatgaacaat gatgggtctg 300
30 tgaagtcatc taaagatgaa atggtgtgga agttgcatgt cccaattacg gaatttgcag 360
cacagcagca aagaatcctt gatttgaagt tc 392

<210> 967
<211> 392
35 <212> DNA
<213> Arabidopsis thaliana

<220>
40 <221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

<400> 967
45 cacgcgtccg aatatctctc tctctctctc tcgttgagtg tgtccatgaa ataatactct 60
gccagagaca gagagaaaga ctgtaacgga ggatgtggtg gcgaagtggc cactactgaca 120
cactggtttc atgatggtga accacaacaa tggccagcga cccactgata ttgattctcg 180
tctccgacag acagaacaag ataagctctt gttccatgac tttttaggct ccaagaatcc 240
tacttttagca tccacttcca tggctgacca taggctacca ccggataata aggcgggctaa 300
ageggcgatg actccttcca cggctnctgc ttnntccgcc ggtggactcg gcggtctctc 360
50 ctcaacctcc gatctcgtcg aaagacacag cg 392

<210> 968
<211> 392
<212> DNA
55 <213> Arabidopsis thaliana

<400> 968
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atgatgcgaa gtttcgatct caggaagaag aagatcagtc cagttacgat cagaaaacag 120
60 tatgcgaagc tctcacatgt tacagcaacg attggcaaaa ggcgttgag tttttcaact 180

5 gggtcgagag agaatccgga ttcagacata ccaccgagac attcaatcgg gtgatcgata 240
 ttctgggagg ctattgatgc gtatgataaa ttggatgatt tcaatttgag agatgaaaca 300
 tcattttata atctggtcga tgcgctttgc gagcataaac atgtggttga agctgaagag 360
 ctttgttttg ggaagaatgt cattggtaat gg 392

10 <210> 969
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

15 <400> 969
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 aacaaaaagc caagaaagat gttgctcctg ggaggttgat tgataacctat gctgcacagt 120
 gcgataactg tcacaagtgg aggggtgattg atagccagga ggaatatgaa gatatcagaa 180
 gtaaaatgct cgaggatcct ttttaactgtc agaagaaaca gggcatgtct tgtgaagagc 240
 20 ctgctgatat tgactacgat tcttctcggga cttgggtcat tgacaagcct ggtctcccca 300
 aaacgcctaa aggtttcaag agaagcttag ttctcagaaa agattactct aagatggata 360
 cctactactt tactcctacc gggaagaagc tc 392

25 <210> 970
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 970
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 tctacaagtt tctgaaatca agcaaaggcg ggctcttttg agacggcatt aagtggaact 120
 tcgcaaagtt cttggttgac aaagatggaa atgttgtcga tcgttttcgca ccaactacct 180
 cacctctcag cattgagaag gatgtgaaga agttgttggg agttactgct taagcaaggc 240
 aagattgcat aattagacaa ataaaagctc attagtattg tattaccaat actgtgtagt 300
 35 aagctgagtt cgtgagtgtg tgcctttggg accgcgtaca attataatcc gtttttttagc 360
 ggccaaacta tgtaataatc gtagatctaa at 392

40 <210> 971
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

45 <400> 971
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 ggcttccctc atgctctcct ccaccgctgt ggttacctcc ccggtcaag ccaccatggg 120
 cgctccattc accggcttga agtcatccgc ttctttcccg gtcacccgca aggccaacaa 180
 cgacattact tccatcacaa acaacggagg aagagtttagc tgcatgaagg tgtggccacc 240
 aatcggaag aagaagtttg agactctatc ttacctccct gaccttagtg acgttgaatt 300
 ggctaaggaa gttgactacc ttctccgcaa caagtggatt ccttgtgttg aattcgagtt 360
 50 ggagcacgga tttgtgtacc tcggccgcga cc 392

55 <210> 972
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

60 <400> 972
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 acaaagaatt tgctaagtag tacaagattc agggtttccc cactcttaag attttgagaa 120
 atggagggaa gtcggttcaa gattacaacg gacctcgtga agctgagggg attgtcactt 180

5 atttgaagaa gcaaagtggc cctgcttctg ttgaaattaa gtcagctgat tctgccactg 240
aggttggttg tgaaaagaat gttgttgctg ttggagtgtt ccctaaatta tccggggatg 300
agtttgattc ttctatggcc cttgctgaga aattgcgtgc tgactatgat ttcgcacaca 360
ctttggatgc taagtttctt cctcgtggag ag 392

10 <210> 973
<211> 392
<212> DNA
<213> Arabidopsis thaliana

15 <400> 973
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cgatggcgga ggatacgagc ttcgagggag accaactagc ttccatgact actgatgaca 120
tcggtagagc ttctcgtctc ttagccaacg agattcgcct cctcaaggaa gaatcgacga 180
ggacaaacct tgatttgga tcaagtgaagg agaaaataaa ggagaaccag gagaagatta 240
20 agcttaacaa acagcttcct tacttagttg gcaatatcgt tgagattctt gagatgagtc 300
cagaggatga tgcagaggaa gatggagcga atatcgatct ggactctcag aggaagggaa 360
agtgtgtcgt tctaaaaaca tcaactcgtc ag 392

<210> 974
25 <211> 392
<212> DNA
<213> Arabidopsis thaliana

<400> 974
30 tcgagcggcc gcccgggcag gtaccagtta ctatacttgc atttgtctct agttgtttct 60
tgatgaaact tggtaagtat tttggatgat gtgaaagatc agcatccatg atcacgacga 120
aatcacccgt agcatgcttc aaaccatgaa tatatgcagt tcccaaacca agcttcttgg 180
ctctagctct taaaaggata cggctcttcac catacaattg ctgcagttgc ttgacaattt 240
cctgtgtgcc atcaggactc ccatcatcca caacaattat ctcaaatca acgtcccgga 300
35 gatgcttgaa aatcaggtag actatgatag cgatgttgag gcgctcgttg taggtaggaa 360
tgattatgct atacttgtac ctcggccgcg ac 392

<210> 975
40 <211> 392
<212> DNA
<213> Arabidopsis thaliana

<400> 975
45 tgaacagatt cgcacaaac cctaagaaac tgaagatgag gccgatcctg atgaagggac 60
atgaacgtcc attgacgttt ctgaggtaca acagagaagg agatctgctt ttctcctgcg 120
ccaaggacca cacaccacc ctctggtttg ccgataacgg cgagcgcctt ggaacttacc 180
gtggtcacia cgggtgctgtt tgggtgctgt atgtctcccg agactcgtca agattgatca 240
ctggtagtgc tgatcagact gcaaagctgt gggatgtaaa atctggaaaa gaattgttca 300
ctttcaagtt taatgcccct acgaggtctg tggatttcgc tggtggagat cgtcttgacg 360
50 tgattaccac tgatcacttc gtggaccgta cc 392

<210> 976
55 <211> 392
<212> DNA
<213> Arabidopsis thaliana

<400> 976
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ggaaacctcc ttcagcttca gaagcttaac ccacaacgct tcttcgctgg atgggcaaaa 120
60 aaatacggtc caatcttgct atacaggata ggaagcagaa caatggtggt gatatttca 180

5 gctgagctag ctaaagagct tctcaagacg caagatgtca actttgcgga ccggcctcca 240
catcgtggcc atgagttcat atcctacggc aggcgtgaca tggcattaaa ccactacaca 300
ccgtattacc gagagataag gaagatgggg atgaaccact tgttctcacc aacacgtgtg 360
gccaccttta agcttgtagc tcggccgcga cc 392

10 <210> 977
<211> 392
<212> DNA
<213> Arabidopsis thaliana

15 <220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

20 <400> 977
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ctctgcactg tcctgctaac tgetgcagta catgtgcgtt aaacgagaat ctgtgttgct 120
ataaatccag atacattatc tcggccatta aacgtgaaca accaaacaaa agcaaagaaa 180
aaagatgggt accaatctaa accagttgct gctagttagc tcctttatga aagagtgaat 240
25 aaaaaaattg gagtccggag gaagaatgca tagaancaac aatgaaaatg gttaattgtc 300
taactaagtt gagaaatatc aacctcatca gnnnncttga aggtatccgc agcaccaaac 360
tttctaaatt cttcgccttc agccactgag tc 392

30 <210> 978
<211> 392
<212> DNA
<213> Arabidopsis thaliana

35 <220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

40 <400> 978
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tcaacgatga ccaaacacaa actagagtca cagtgaagc aattttcaag aatccggacc 120
aattatcatc ttatcatttt gctttgagtt cttgattttc cttgatatta tcttcttcgt 180
ttgacattgc ttctctgttt tcgtctggac aatgggttac acctgcgtct atctctggtc 240
cctttagaat gatttnnnct cttccgtttc ttagaactcg cattattctc ctctgctatg 300
45 acttccccaa ccaaatcatc ttcgaccatt ttacgaacga gaacatataa tctaggttct 360
gatgaactcg gctctagaaa gatctgtttt tg 392

50 <210> 979
<211> 392
<212> DNA
<213> Arabidopsis thaliana

55 <400> 979
gcgccgcgcg aacagtctgg ttatgcttct tctggctctg actactctcc tctagctta 60
aactctgatg ctcaggaccg cactggaaaag atagtcttta aactacttga taaagatcca 120
agtcagctcc ctgggactct acgatctgag atctataact ggctttcgaa cattccatca 180
gaaatggaga gttatatcag gcttggctgt gttgttctat ctgtttatgt agcaatgtca 240
cctgcagcct gggaacaact tgagcaaaaa ttgctgcaac ggcttgggtg tttgctacaa 300
aattctcctt ctgatttttg gagaaacgca agatttatag ttaacacggg aagacaactc 360
60 gcatcacaca aaaatggtaa agttcgatgt ag 392

5
 <210> 980
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

10
 <220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

15
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 tgtaatgggt acaagagaca gtgaaaatac tcttgctgct gttcaactaa ctgtggatct 120
 taagccaaat ctcccagctg aggagagag aataagaaag tgtcgaggac gagtgtttgc 180
 20 tcttagagat gaacctgaag tttgtagagt ttggctgcc aattgtgact cacctggact 240
 tgctatggca cgtgcttttg gtgacttttg ccttaaagat tttggcctaa tctctgtgcc 300
 tgatgtatct ttccgctcag taaccgaaaa agatgagttt atagtgttgg ctacagatgg 360
 gatttgggat gttctctcaa atgaagatgt ag 392

25
 <210> 981
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

30
 <400> 981
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 tgaaacaact gatctaaatg agctagttag aaaggaacct tggctctcgt ctgagaagct 180
 ggtggtgaaa cctgacatgt tgtttggaaa gcgtggcaag agtgggttgg ttgccttgaa 240
 35 attagatttt gctgatgttg ccacttttgt taaagaacgt ttgggaaaag aggtagagat 300
 gagtggatgc aaaggacca taacaacatt catagttaga ccatttgttc cacacaatga 360
 ggagtattat ctcaatgttg tctcggatcg gc 392

40
 <210> 982
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

45
 <400> 982
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 tttttacttc ttcaagttct tgcagtctat tttctcgaca attttctctg aaaatcttta 120
 cgggaaagtt gttctcatca ctggtgcttc ctccggtata ggagagcaat tggcatatga 180
 gtacgcatgt agaggtgcat gtttagccct gaccgcccga aggaagaacc gtctagagga 240
 agtggcagag attgctcgtg aactcggatc tcccaatgtt gttaccgttc atgctgatgt 300
 50 ctccaaacct gatgactgta gacgaatcgt tgatgacacc atcaccatt ttggcagatt 360
 ggatcatctt gtaaataatg ctgggatgac gc 392

55
 <210> 983
 <211> 391
 <212> DNA
 <213> Arabidopsis thaliana

60
 <220>
 <221> misc_feature
 <222> (1)...(391)

5 <223> n = A,T,C or G

<400> 983

aaaaaaagta tgataaaca ccactcaaag gtaacaaaat cttattacaa attgaaataa 60
tacaataatg cacgaatcga tatacaaaata tgaaaaaaac aaattcaaaa caagaaaact 120
10 tgcaagttac aacaaataga accattaata atacagtact cacactcaca acgacaacgt 180
acgttctcgt ttattattcg atccacatat atacgccaaa gtaaatacta acaaaacgac 240
atcgtcccat tatccgcagc aattaagagc tttgtttctt cttatgggca cttgcggcgt 300
ccaccgtggg tggtagaggt agcgtnnnnc tggcacttgt cgtagtttcc gtacgtaccc 360
ggaggcacac agttgcacct gtagcagcaa g 391

15

<210> 984

<211> 391

<212> DNA

<213> Arabidopsis thaliana

20

<400> 984

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ttcattaaat ctctaagaat tcaaaaagaa ttcggtaaat aactttccca aaaaaacact 120
aatatttgat gtaagcaaca gaagaagtgt tggcatcttt gataagtgt ccaagcagag 180
25 gagcaagcaa acatttcttg tctttctctt tgtagaagta acccaaacac ttgcaatcac 240
gatcgactt ggcttgcaa tcgttcacag aagttgggccc ttgtccatca ttaacataag 300
gccagtaaaa atgctcaaca ccgactatct tataataatt gacagtttta cccttgactc 360
cgctgcaaaa ctgcgtcgtt ataggtgggtg c 391

30

<210> 985

<211> 391

<212> DNA

<213> Arabidopsis thaliana

35

<400> 985

tttttttctt gtaatgtttc ctgggtgttat aacgatgtgt acaacacttt tccacaaacc 60
aaaagctaca aactaagaca ccagaaagct taatcagtaa attggtacaa gtttttatca 120
aaatcaaate ttctgaattc tttagttaaa cgtttcttct catgtatgct tttgttctgt 180
aaaatagtat cagcagcatt gtccattgta taactctggc tcattgctat attctgaact 240
40 cgtttagcaga ttacccttt tccccctctt ttcttcttct tcttcttctt cttctctttc 300
ttcagtggcc tcagtctcgc actctttatc ggaatctgcc atatgggtcga agaaatcacc 360
aaaataccac ttacaatctt ctttccattc g 391

45

<210> 986

<211> 391

<212> DNA

<213> Arabidopsis thaliana

50

<220>

<221> misc_feature

<222> (1)...(391)

<223> n = A,T,C or G

<400> 986

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tcaatctcaa accaataagg attagtacga aagttagaag ttttggtggg aatcggagag 180
agccgaagga ttcaagattt gtcgatgaaa atggcgtagt tgatgaaatg gaaggtttct 240
tagacaatct ctctctcgaa tacgactccg tttgggacac taaacctctt tgggtgtcagc 300

5 catggacgat aatgttaaca ggtttttcaa tagtggcntg tagctgggta atactacatt 360
cggtcatagt ttcgtcgctt gcggttggtg t 391

<210> 987

<211> 391

10 <212> DNA

<213> Arabidopsis thaliana

<400> 987

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ttggtggttg catattagaa gcagccaata gagaacttta taagccagag gatttggcca 120
aagaaattac tactcaagca aagcctgtga atagaattgg ttttattggc cttggagcaa 180
tgggttttgg catggcagca cacctgttga aatcaaattt ttctgtctgt ggttatgacg 240
tatacaagcc aacacttgtc agatttgaga atgccggggg attggcggca aattccccag 300
ctgaagtgac gaaagatgta gatgttcttg taattatggt aacaaacgag gttcaggctg 360
20 aggatgtctt gtatggacat cttggagcgg t 391

<210> 988

<211> 391

<212> DNA

25 <213> Arabidopsis thaliana

<400> 988

30 tcgagcggcc gcccgggcag gtacagattt ctcttgccgg gaaattgcat aagagaaagc 60
gaatgatcgt tcgaatcttc accacataga gtcttaacttc tcattcatct taagacctct 120
acattgagag gaaacaaaagg ctggttgtaa tcctctcctg gactaataac acttacacaa 180
ctgatatata atctctgcaa ttttgtctga ggcgtatcgg tgtcgggtgaa tgctgcagag 240
tttttcatca ggcacttcga gaggattatt aaagggtgaa agattattgt atatagatag 300
acctctttgt ttcttcagga ttctgatttc gcacaggca tgaaaacctt cattctctgt 360
gactgtgcat catcaaacat gagtttctat t 391

35

<210> 989

<211> 391

<212> DNA

<213> Arabidopsis thaliana

40

<220>

<221> misc_feature

<222> (1)...(391)

<223> n = A,T,C or G

45

<400> 989

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gtctgatgac aattggcaat ggacggattc accccccaga gtcgatgggt gggatagtga 180
tcctgccgat gttgatctct atgataggga tgacgtagat tgggatggac aatattccag 240
tgggaggaaa agaagatcag gtcgggattt tgtaatgagt gtcgattcct ttgccaggag 300
acacaggaaa cccngnatgg agacacaaga agatataaat caaagaatgc gttcagttga 360
gttggtgtgc aaagaagctc tctctgcacg a 391

55

<210> 990

<211> 391

<212> DNA

<213> Arabidopsis thaliana

60

<400> 990

5 cgattttctta cgcgctcttt ttgtggcgac tgttgatatac gcgcgagcct tcatggacac 60
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tgggtttaaa ttctcgccga cggatgtgga gttgatttcg tattacctga agcgggaagat 180
ggatggcctt gagagggtccg ttgagggttat accggacctt gagattttaca atttcgagcc 240
ttgggatttta cccgataaagt cgatttgtgaa atctgatagc gagtggttct tcttctgtgc 300
10 gcgtgggaaa aagtatccac atggttcaca gaacaggaga gcaacgaaga tgggatactg 360
gaaagcaact gggaaaagagc gtgatgtgaa g 391

<210> 991
<211> 391
15 <212> DNA
<213> Arabidopsis thaliana

<400> 991
20 tttttttttt tttttttaac aacagaagat gatcagattc tagttttcac aaagatgatg 60
tttttttttg tttcgtttaa aacaagaccc acttcatttg gtcctgtctt cagaaagtta 120
aaaggacaca aagagatgtc tatcgaatca tacatagaaa ttaaggcaga tttttttctt 180
cataaagaga taatttagta ggtgggattt tccatttagc ccatggcata cttctgagtc 240
cagcttcgtg cagtggactc gtacttgctt ttgtcagctt tgtacatgtg agctatctcg 300
ggcaccaaag gatcatccgg gtttggatcg gttaacaaag aacagatcga tagcagcacc 360
25 ttggaaatgg tgagcgcagg actccactgc t 391

<210> 992
<211> 391
<212> DNA
30 <213> Arabidopsis thaliana

<400> 992
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agaaagaagt caggatcttc agaggggtctt tcacaacttc gacccaagtc ttcgacctat 180
ggagaaggcc gtggaatacc agagagctct tacagctgcc aaattagaaa agatatttgc 240
aaggccgttt gttggagcaa tggatggtca tcgtgatgga gtctcatgta tggcgaagaa 300
cccaaattac ctcaaaggaa tcttctctgc ttctatggat ggagatatcc gcctttggga 360
40 tatctcttca aggtgtacct cggccgcgac c 391

<210> 993
<211> 391
<212> DNA
45 <213> Arabidopsis thaliana

<400> 993
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ttatataggt tataggatga tacaaccata catgaggatg tatatctca taattcaact 120
tattatggaa cttgattaaa agagtaattt aagggaagc aacattagaa tttggagatg 180
aatcaagga taatttgag aatctcctga ggcttttctt ggttaatgaa gtgagccact 240
ccttccatga ccacaggctc ttcaagcaaa ggcacatctt ccttaactg gggaccatgt 300
atatattcct tcacaccagg catatagtag accagatcaa gctcccctat cacaacttt 360
gtaggaacct ggattttgct tcccacccat g 391

<210> 994
<211> 391
<212> DNA
55 <213> Arabidopsis thaliana

60 <400> 994

5 ttaaaaccaa agccacagct tgtccaacat tattgtttcg tgaaacgaat tggaccaaca 60
 aaatcctaca aatgaaatga ggaatgtttt ggtgtataga gagaacatt acttaatctc 120
 acttgtttct ggtgatgact ctatgggtca agtcaataag tgcccgcctc gatcttttga 180
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